MMM	MMM	AAAAAAA	1	111111111	LLL
MMM	MMM	AAAAAAAA			ΙΙΙ
MMM	MMM	AAAAAAA		IIIIIIII	ΙΙΙ
	MMMMMM		AAA	111	ΙΙΙ
	MMMMMM		AAA	iii	iii
	MMMMMM		AAA	iii	iii
MMM MMM			AAA	111	iii
MMM MMM		ÄÄÄ	AAA	111	LLL
MMM MMM				111	
		AAA	AAA	111	LLL
MMM	MMM	AAA	AAA	111	LLL
MMM	MMM	AAA	AAA	IIi	LLL
MMM	MMM	AAA	AAA	ĬĬĬ	ĪĪĪ
MMM	MMM	AAAAAAAAAA		ĬĬĬ	ĬĬĬ
MMM	MMM	AAAAAAAAAAA		ĬĬĬ	ĬĬĬ
MMM	MMM	AAAAAAAAAA	AAA	ĬĬĬ	ΙΙΙ
MMM	MMM	AAA	AAA	ĬĬĬ	ίίί
MMM	MMM		AAA	ĪĬĬ	ĬĬĬ
MMM	MMM		AAA	iii	111
MMM	MMM		AAA	1111111111	1111111111111
MMM				11111111	
	MMM		AAA	111111111	
MMM	MMM	AAA	AAA		LLLLLLLLLLLLL

* *********

S) M/ M/ M/ M/

M/ M/ M/ M/ M/ M/ M/

\$	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	NN	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	MM MM MMM MMM MMMM MMMM MM MM MM MM MM MM	\$	GGGGGGGG GGGGGGGG GG GG GG GG GG GG GG
		\$				

1 1 *

1 1.

1 !*

1 1 .

1 1

1 1

1 1

1 1 *

1 1

1 1.

1 !*

1 1

1 1.

O MODULE MAIL\$SEND_MSG(%TITLE 'VAX/VMS PERSONAL MAIL UTILITY'
DEGIN

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FACILITY: VAX/VMS MAIL UTILITY

ABSTRACT: Send message to another user on local node

ENVIRONMENT: NATIVE/USER MODE

AUTHOR: Benn Schreiber, CREATION DATE: 22-Dec-1982

MODIFIED BY:

V03-019 ROP0032 Robert Posniak 09-AUG-1984 Make sure locally allocated XABs are disconnected from global FABs.

V03-018 ROP0029 Robert Posniak 24-JUL-1984 Allow VFC format files to be sent in block mode.

V03-017 ROP0013 Robert Posniak 27-JUN-1984 Only send in block mode if input file has variable length records. Modify test of isam_create status to allow sending to sequential files.

V03-016 BLS0272 Benn Schreiber 18-FEB-1984 13:39:01 Change call to mail\$net_send to send addressee descriptor

MAIL\$SEND_MSG V04-000	VAX/VMS PERSONAL	. MAIL U	H 5 16-Sep-1984 01:17:01 VAX-11 Bliss-32 V4.0-742 Pag 14-Sep-1984 12:42:31 DISK\$VMSMASTER:[MAIL.SRC]SENDMSG.B32,1
: 58 : 59	0059 1 !	v03-015	BLS0263 Benn Schreiber 5-FEB-1984 Only set exec mode on external file if requested.
60 61 62 63	0062 1 ! 0063 1 ! 0064 1 !	v03-014	BLS0255 Benn Schreiber 28-Dec-1983 New global flags. Open mail file with exec mode logicals. Fix error return from create isam to only try sequential file if error was file locked. Skip addressees marked nosend.
64 : 65 : 66 : 67	0067 1 !	v03-013	BLS0250 Benn Schreiber 9-Dec-1983 Ensure that we are writing to a disk device.
68 69 70	0070 1 !	v03-012	BLS0246 Benn Schreiber 8-Nov-1983 New mail count in VMSMAIL.DAT, rather than mail file
71 72 73 74	0073 1 ! 0074 1 !	v03-011	BLS0235 Benn Schreiber 23-Aug-1983 Quit if \$connect fails, also. Really rewind the message file for each addressee.
75 76 77	0075 1 ! 0076 1 ! 0077 1 !	v03-010	BLS0233 Benn Schreiber 7-Aug-1983 Put nodename on sender's name correctly
78 79 80 81 82 83	0078 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	v03-009	BLS0229 Benn Schreiber 16-Jul-1983 Deliver external message files in block mode. Rewrite mail\$send_addr into bliss.
: 84	0082 1 ! 0083 1 ! 0084 1 !	v03-008	BLS0222 Benn Schreiber 15-May-1983 Set SQO on sequential external file.
85 86 87	0087 1 !	v03-007	BLS0221 Benn Schreiber 5-May-1983 Correct SYSPRV handling
88 89 90	0090 1 !	v03-006	BLS0220 Benn Schreiber 30-Apr-1983 Device/directory are now one argument
91 92 93 94 95	0091 1 ! 0092 1 ! 0093 1 ! 0094 1 !	v03-005	BLS0218 Benn Schreiber 18-Apr-1983 Call check date with 3rd arg (dev/dir descriptor). Allow for no protection xab and make one up.
96 97 98	0095 1 ! 0096 1 ! 0097 1 ! 0098 1 !	v03-004	BLS0217 Benn Schreiber 12-Apr-1983 Tell if new folder created. Add external message deliver for large messages.
; 100 ; 101	0100 1 0101 1 0102 1	v03-003	BLS0216 Benn Schreiber 1-Apr-1983 Add flag to use passed in date/time rather than current.
; 102 ; 103 ; 104 ; 105 ; 106	0102 1 0103 1 0104 1 0105 1 0106 1	v03-002	BLS0214 Benn Schreiber 27-Mar-1983 Put new messages in NEWMAIL folder. Count records and store count in message header.

```
I 5
16-Sep-1984 01:17:01 VAX-11 Bliss-32 V4.0-742 Page 3
14-Sep-1984 12:42:31 DISK$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1 (2)
MAIL$SEND_MSG VAX/VMS PERSONAL MAIL UTILITY
V04-000
                                                         0107 1 | TABLE OF CONTENTS: 0109 1 |
                                         O108 1 TABLE OF CONTENTS:
O109 1 O110 1 O111 1 O112 1 INCLUDE FILES:
O113 1 LIBRARY 'SYSSLIBRARY:LIB';
O115 1 REQUIRE 'SRC$:MAILREO';
O261 1 LIBRARY 'LIBS-MAILDEF';
O262 1 EXTERNAL
O264 1 MAIL$GL_BIGBUFSIZ,
O265 1 MAIL$GL_BIGBUFFER,
O266 1 MAIL$GL_FLAGS: $8BLOCK,
O267 1 MAIL$GL_FLAGS: $8BLOCK,
O268 1 MAIL$Q_SYSNODE2: $BBLOCK,
O269 1 MAIL$GL_FLAGS: $8BLOCK,
O269 1 MAIL$GL_FLAGS: $BBLOCK,
O270 1 MAIL$GL_FLAGS: $BBLOCK,
O271 1 MAIL$GL_BIGBUFFER,
O270 1 MAIL$GL_BIGBUFFER,
O271 1 MAIL$GL_BIGBUFFER,
O272 1 MAIL$GL_BIGBUFFER,
O273 1 MAIL$GL_BIGBUFFER,
O274 1 MAIL$SD_FXTMSGNAM,
O275 1 MAIL$SD_EXTMSGNAM,
O275 1 EXTERNAL ROUTINE
O276 1 LIBSFREE VM,
O277 1 MAIL$SD_EXTMSGNAM,
O278 1 MAIL$SCHETK DATE,
O279 1 MAIL$CHETK DATE,
O279 1 MAIL$CHETK DATE,
O280 1 MAIL$CHETK DATE,
O281 1 MAIL$CHETK DATE,
O282 1 MAIL$CHETK DATE,
O283 1 MAIL$CHETK DATE,
O284 1 MAIL$CHETK DATE,
O285 1 MAIL$CHETK DATE,
O286 1 MAIL$CHETK DATE,
O287 1 MAIL$CHETK DATE,
O288 1 STR$CONCAT,
O288 1 STR$CONCAT,
O289 1 STR$CONCAT,
O290 1 UTIL$GEFFILENAME,
O291 UTIL$GEFFILENAME,
O291 UTIL$GEFFILENAME,
O292 1 UTIL$REPORT_IO_ERROR;
O293 1 OWN
O295 1 OWN
O296 1 OWN
O297 1 SSUD MSGDEE (MAIL 124 LOCAL)
         109
         110
         111
        112
113
114
        115
         116
         117
         118
         119
                                                                                                                                                                                                                                                                             !Size of BIGBUF
!O or pointer to bigbufsiz pgs
!Control flags
!'node::'
        12234567890123456789012345
                                                                                                                                                                                                                                                                  !'node::'
!Full user name
!SYSuaf buffer
!UIC of person running MAIL
!Max size msg to put in isam
!FAO string to make file name
!Addr of descr of 'NEWMAIL'
                                                                                                                                                                                                                                                                            !Deallocate memory
!See if key in ISAM file
!Create ISAM file
!Delete all logical links
!Get message text and fao it
!Get user's mail device/dir
!Get message text for code
!Increment new mail count
!Send to remote addressee
                                                                                                                                                                                                                                                                            Send to remote addressee Notify message received Raise privileges
Drop privileges
String concatenation
                                                                                                                                                                                                                                                                             String copy
Formatted ascii output
         146
                                                                                                                                                                                                                                                                              !Ditto
        148
149
150
151
153
154
155
156
157
158
159
                                                                                                                                                                                                                                                                              !Report I/O error
                                                                                                       DYN_DESC : DYN_DESC_DECL;
DYN_DESC_2 : DYN_DESC_DECL;
                                                                                                                                                                                                                                                                           !Two dynamic strings
                                                           0296 1
                                                  0297 1
P 0298 1 $SHR_MSGDEF(MAIL,126,LOCAL,
P 0299 1 (OPENOUT, ERROR),
P 0300 1 (READERR, ERROR),
                                                                                                                       (WRITEERR, WARNING), (CLOSEOUT, WARNING));
                                                    P 0301 1
                                                          0302 1
0303 1
0304 1 MACRO
          160
                                               0305
0306
0307
                                                                                                       DEFFILENAM = 'MAIL'X, ! Default message file name DEFFILETYP = '.MAI'X; ! Default message file type
          161
         162
         163
                                                       0308
                                                                              1 LITERAL
```

:::

```
K 5
16-Sep-1984 01:17:01
14-Sep-1984 12:42:31
MAIL$SEND_MSG
                                                                                                                                       VAX-11 Bliss-32 V4.0-742 Page 5 DISK$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1 (3)
                        VAX/VMS PERSONAL MAIL UTILITY
V04-000
                        0319
0320
0321
0322
0323
0324
0325
    176
177
                                    ROUTINE PUT_SEND_MSG (LENGTH, ADDR, SND_RAB) =
                                 8E+F
                                    BEGIN
    178
    179
                                       FUNCTIONAL DESCRIPTION:
    180
   181
182
183
184
185
                                                 This routine write the record specified by LENGTH and ADDR
                                                 to SND_RAB, and reports errors encountered.
                                       INPUTS:
                        0328
   186
187
                        0329
                                                 LENGTH length of record to write
                        0330
                                                 ADDR
                                                             address of record to write
                        0331
    188
                                 MAP
LOCA
                        0332
0333
    189
    190
    191
                        0334
                                           SND_RAB : REF $BBLOCK;
    192
                        0335
    193
                        0336
                                    LOCAL
    194
                        0337
                                           STATUS:
    195
                        0338
                                 2 SND_RAB[RAB$W_RSZ] = .LENGT(
2 SND_RAB[RAB$L_RBF] = .ADDR;
    196
                        0339
                                    SND_RAB[RAB$W_RSZ] = .LENGTH;
    197
                        0340
                        0341
    198
                                 2 IF_ERR((IF .SND_RAB[RAB$V_BIO]
THEN $WRITE(RAB=.SND_RAB,ERR=UTIL$REPORT_IO_ERROR)
ELSE $PUT(RAB=.SND_RAB,ERR=UTIL$REPORT_IO_ERROR));,
                     P 0342
P 0343
    199
    200
    201
202
203
                     P 0344
                                 2 RETU
1 END;
                        0345
                                                 RETURN .STATUS);
                        0346
                                    RETURN TRUE
    204
                                                                                                                  .TITLE MAILSSEND_MSG VAX/VMS PERSONAL MAIL UTILITY
                                                                                                                  .IDENT
                                                                                                                              \V04-000\
                                                                                                                  .PSECT SOWNS, NOEXE, 2
                                                                                      00# 00000 DYN_DESC:
                                                                                                                  .BYTE
                                                                                                                              0[5]
                                                                                02 OE 00002
                                                                                                                              14, 2
                                                                                                                  .BYTE
                                                                                            00004
                                                                                                                   .BLKB
                                                                                      00# 00008 DYN_DESC_2:
                                                                                                                              0[5]
                                                                                                                              14. 2
                                                                                            0000A
                                                                                02 OE
                                                                                                                  .BYTE
                                                                                            00000
                                                                                                                  .BLKB
                                                                                                                 .EXTRN MAIL$GL_BIGBUFSIZ
.EXTRN MAIL$GL_BIGBUFFER
.EXTRN MAIL$GL_FLAGS, MAIL$Q_SYSNODE2
.EXTRN MAIL$Q_FULLUSER
.EXTRN MAIL$T_UAF_BUFF
.EXTRN MAIL$T_UAF_BUFF
.EXTRN MAIL$L_MYUIC, MAIL$L_SIZLIM
.EXTRN MAIL$SD_EXTMSGNAM
.EXTRN MAIL$SD_NEWMAIL
.EXTRN LIB$FREE_VM, MAIL$CHECK_DATE
.EXTRN MAIL$CREATE_ISAM
.EXTRN MAIL$CREATE_ISAM
.EXTRN MAIL$CREATE_ISAM
                                                                                                                  EXTRN MAILSDELETECINK
                                                                                                                  .EXTRN MAIL$FAO_GETMSG
```

```
M 5
16-Sep-1984 01:17:01
14-Sep-1984 12:42:31
MAIL$SEND_MSG
V04-000
                                                                                                                                  VAX-11 Bliss-32 V4.0-742 Page 7 DISK$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1 (4)
                       VAX/VMS PERSONAL MAIL UTILITY
                       0348
0349
0350
0351
                                1 ROUTINE PUT_NEW_REC(LENGTH, ADDR, SND_RAB) =
    1 !++
1 ! FUNCTIONAL DESCRIPTION:
                       03553
0335567
0335567
0335567
033667
033667
033667
033667
033690
                                               Write a record to the isam file.
                                   BEGIN
                                2 MAP
                                          SND_RAB : REF $BBLOCK,
                                          ADDR : REF $BBLOCK;
                                   BUILTIN
                                         CALLG.
                                          AP:
                                2
2 SND_RAB[RAB$L_KBF] = ADDR[MFR_Q_DATIM];
2 SND_RAB[RAB$B_KSZ] = 8;
                               2 RETUR
2
1 END;
                                   RETURN CALLG(.AP, PUT_SEND_MSG)
                                                                                 0000 00000 PUT_NEW_REC:
                                                                                                                                                                                              0348
0365
                                                                                                               .WORD
                                                                                                                          Save nothing
                                                                                                                          SND_RAB, RO
ADDR, 48(RO)
#8, 52(RO)
(AP), PUT_SEND_MSG
                                                                              AC
AC
08
                                                          50
                                                                                    DO 00002
                                                                                                              MOVL
                                                  30
34
                                                                                    00 00006
90 0000B
                                                          AO
                                                                                                              MOVL
                                                                                                                                                                                              0366
0368
0370
                                                          AO
                                                                                                              MOVB
                                                   B6
                                                          AF
                                                                               60
                                                                                    FA 0000F
                                                                                                              CALLG
                                                                                                              RET
```

Routine Base: \$CODE\$ + 0037

; Routine Size: 20 bytes,

#1, R0

(AP), PUT_NEW_REC

MOVL RET

CALLG

RET

0385

0387 0389

; Routine Size: 17 bytes, Routine Base: \$CODE\$ + 004B

50

AF

DC

```
B 6
16-Sep-1984 01:17:01
14-Sep-1984 12:42:31
MAIL$SEND_MSG
V04-000
                                                                                                               VAX-11 Bliss-32 V4.0-742 Page 9 DISK$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1 (6)
                    VAX/VMS PERSONAL MAIL UTILITY
                    1 ROUTINE INIT_PACK_REC(RECLEN) =
   FUNCTIONAL DESCRIPTION:
                                        Initialize for packing records
                            Ž BEGIN
                                   RECLEN : REF VECTOR[,LONG];
                            2 RECLENCO] = $BYTEOFFSET(MFR_T_DATA);
                          2 RETUR
1 END;
                              RETURN TRUE
                                                                     0000 00000 INIT_PACK_REC: .WORD
                                                                                                                                                                : 0390
: 0402
: 0404
: 0405
                                                                                                        Save nothing #48, areclen #1, R0
                                                 BC
50
                                           04
                                                                       00 00002
                                                                                              MOVL
                                                                       DO 00006
                                                                                              MOVL
                                                                        04 00009
                                                                                              RET
```

Routine Base: \$CODE\$ + 005C

; Routine Size: 10 bytes,

MA VO

```
C 6
MAIL$SEND_MSG VAX/VMS PERSONAL MAIL UTILITY
                                                                                    16-Sep-1984 01:17:01
                                                                                                                   VAX-11 Bliss-32 V4.0-742
V04-000
                                                                                    14-Sep-1984 12:42:31
                                                                                                                   DISKSVMSMASTER: [MAIL.SRC]SENDMSG.B32:1 (7)
                    0406
0407
0408
   268
267
277
277
277
277
277
278
279
280
                               ROUTINE PACK_NEW_REC (LENGTH, ADDR, RECLEN, RECBUF, SND_RAB) =
                            1 ! FUNCTIONAL DESCRIPTION:
                    0409
0410
0411
0412
0413
                                          Pack records into buffer. Write out records as needed
                               BEGIN
                     0414
                     0415
                     0416
                                     RECLEN : REF VECTOR[,LONG];
                    0417
                     0418
                               IF (.RECLEN[0] + .LENGTH + 2) GTR MFR_C_MAXLEN
                     0419
                              THEN BEGIN
                 P 0420
0421
0422
0423
0424
0425
0426
0427
                                    281
   282
                                    INIT_PACK_REC(RECLENCO]);
END;
   284
   285
                            3 BEGIN
   286
   287
                                    BIND
   288
                                         BUFF = .RECBUF + .RECLEN[0] : VECTOR[,WORD];
                    0428
0429
0430
   289
                                    BUFF[0] = .LENGTH;
CH$MOVE(.LENGTH..ADDR.BUFF[1]);
RECLEN[0] = .RECLEN[0] + .LENGTH + 2;
   290
   291
292
                    0431
   293
                    0432
   294
                    0433
                            Ž RETUR
1 END;
   295
                    0434
                              RETURN TRUE
   296
                    0435
                                                                       003C 00000 PACK_NEW_REC:
                                                                                                 WORD
                                                                                                           Save R2, R3, R4, R5
                                                                                                                                                                       0406
                                                                     AC
02
50
15
AC
                                50
                                            00
                                                   BC
                                                                              00002
                                                                                                 ADDL3
                                                                                                           LENGTH, aRECLEN, RO
                                                                                                                                                                        0418
                                                   50
                                                                              00008
                                                                          CO
                                                                                                 ADDL2
                                                                                                           #2, R0
                                                                              ÕÕÕOB
                                    0080000
                                                   8F
                                                                          D1
15
                                                                                                           RO, #2048
                                                                                                 CMPL
                                                                              00012
                                                                                                 BLEQ
                                                                                                           15
                                                                          7Ď
                                                                              00014
                                                                                                           RECBUF, -(SP)
                                                   7E
                                                                                                                                                                       0421
                                                                                                 MOVQ
                                                                     BC
03
                                                                              00018
                                                                                                 PUSHL
                                                                                                           ARECLEN
                                                                          DD
                                                                              0001B
                                                                                                           #3, PUT_NEW_REC
STATUS, 2$
                                            B2
                                                                          FB
                                                                                                 CALLS
                                                                     ŠŎ
                                                                          E9
                                                                              0001F
                                                   26
                                                                                                 BLBC
                                                                                                          RECLEN

#1, INIT PACK REC

areclen, Recbuf, RO

LENGTH, (RO)

LENGTH, aaddr, 2(RO)

LENGTH, areclen, RO

2(RO), areclen

#1, RO
                                                                              00022
                                                                                                                                                                       0422
                                                                     AC
                                                                          DD
                                                                                                 PUSHL
                                                                              00025
                                                                                                 CALLS
ADDL3
                                                                          f B
                                                                                                                                                                       0427
0429
0430
0431
                                50
                                            10
                                                                              00029 18:
                                                                     BC
                                                                          C1
                                                   AC
                                                                          BO
28
C1
                                                                              0002f
00033
                                                                     ĀČ
                                                   60
                                                                                                 MOVW
                                A0
50
                                            80
00
                                                                                                MOVC3
ADDL3
                          02
                                                   BC
                                                                     AC
                                                   BC
                                                                     AC
                                                                              0003A
```

: Routine Size: 73 bytes. Routine Base: \$CODE\$ + 0066

BC 50

AO

01

9E 00040

00045

00048 25:

DÕ

MOVAB

MOVL

RET

ÕĊ

```
V0
```

0462

```
6
                                                                                  16-Sep-1984 01:17:01
14-Sep-1984 12:42:31
MAIL$SEND_MSG VAX/VMS PERSONAL MAIL UTILITY
                                                                                                                 VAX-11 Bliss-32 V4.0-742
V04-000
                                                                                                                 DISK$VMSMASTER:[MAIL.SRC]SENDMSG.B32:1 (8)
                    0436
0437
0438
0439
   1 ROUTINE GET_RECORD (OUTDESC,GETRAB) =
                            1 ! FUNCTIONAL DESCRIPTION:
                    Read a record from the temp file
                              BEGIN
                            Ž MAP
                                    OUTDESC : REF VECTOR[,LONG],
                                    GETRAB : REF $BBLOCK:
                            2 LOCAL
                                   STATUS:
   314
                            3 STATUS = (IF .GETRAB[RAB$V_BIO]
4 THEN $READ(RAB=.GETRAB)
   315
316
                                                   ELSE $GET(RAB=.GETRAB));
   317
318
319
320
                            2 IF .STATUS
3 THEN BEGIN
                                   OUTDESC[0] = .GETRAB[RAB$W_RSZ];
OUTDESC[1] = .GETRAB[RAB$L_RBF];
   321
322
323
324
                                    END:
                    0460
                           2 RETURN .STATUS
1 END;
                    0461
                    0462
                                                                                               .EXTRN SYSSREAD, SYSSGET
                                                                       0004 00000 GET_RECORD:
                                                                                                .WORD
                                                                                                          Save R2
                                                                                                                                                                     0436
                                                  52
A2
                                                              80
                                                                                                         GETRAB, R2
#3, 5(R2), 1$
                                                                        DO 00002
                                                                                               MOVL
                                                                                                                                                                     0452
                                                                    03
52
01
                                           05
                                0B
                                                                                               BBC
                                                                         E1 00006
                                                                         DD 0000B
                                                                                               PUSHL
                                                                                                                                                                     0453
                                    0000000G
                                                                         FB 0000D
                                                                                               CALLS
                                                                                                         #1, SYSSREAD
                                                                    09
52
01
                                                                         11 00014
                                                                                               BRB
                                                                                                          25
                                                                         DD 00016 15:
                                                                                               PUSHL
                                                                                                                                                                     0454
                                                                                                         #1, SYS$GET
STATUS, 3$
OUTDESC, R1
34(R2), (R1)
40(R2), 4(R1)
                                                  00
00
51
                                                                             00018
                                    0000000G
                                                                         fB
                                                                                               CALLS
                                                                    50
                                                                         E9
                                                                             0001F 2$:
                                                                                                                                                                     0455
0457
                                                                                               BLBC
                                                              04
22
28
                                                                         DÓ 00022
3C 00026
DO 0002A
                                                                    AÇ
                                                                                               MOVL
                                                                    A2
                                                  61
                                                                                               MOVZWL
```

0002F 3\$:

MOVL

RET

04

; Routine Size: 48 bytes,

A1

Routine Base: \$CODE\$ + OOAF

```
0463 1 GLOBAL ROUTINE MAILSWRITE_MSG
0464
                                                                                                                             (GET_ROUTINE, CNCTDESC, FOLDER, DESC, MSGFLAGS, OUTRAB, DATETIME) =
                                                                                 1 !++
                                                        0466
                                                                                  1 ! FUNCTIONAL DESCRIPTION:
                                                        0468
                                                                                                                             Write a message to an ISAM mail file
                                                       0469
0470
0471
0472
0473
                                                                                 2 BEGIN
 336
                                                                                         MAP
                                                                                                          CNCTDESC: REF $BBLOCK, FOLDER_DESC: REF $BBLOCK, MSGFLAGS: $BBLOCK, OUTRAB: REF $BBLOCK, DATETIME: REF VECTOR[,LONG];
                                                        0474
 337
 338
                                                        0476
 339
 340
 341
                                                        0478
342
343
                                                        0479
                                                        0480
                                                       0481
0482
0483
                                                                                                          GET_RAB = CNCTDESC[CNCT_T_RAB] : $BBLOCK,
FROM_DESC = CNCTDESC[CNCT_Q_FROMDESC] : $BBLOCK,
TO_DESC = CNCTDESC[CNCT_Q_TODESC] : $BBLOCK,
SUBJ_DESC = CNCTDESC[CNCT_Q_SUBJDESC] : $BBLOCK;
 344
 345
 346
                                                       0484
0485
0486
0487
347
348
                                                                              LOCAL POLICE TO THE STATE OF THE TAX TO THE 
349
                                                                                                           PTR : REF VECTOR[, WORD],
PTR1 : REF VECTOR[, LONG],
350
                                                        0488
351
352
353
                                                        0489
                                                                                                           MSGHDR : REF $BBLOCK,
SAVERFA : VECTOR[2,LONG],
                                                       0490
0491
                                                                                                          RECLEN,
TFAB : REF $BBLOCK,
SIZEOFF : REF VECTOR[,LONG],
354
                                                       0492
0493
355
356
357
                                                        0494
                                                                                                           RECOUNT,
                                                        0495
358
                                                                                                           MMHLEN,
359
                                                        0496
                                                                                                           EXTMSG,
                                                                                                         EXTMSG,
DEVDIRDESC: VECTOR[2,LONG],
OUTNAM: REF $BBLOCK,
MMHRFA: VECTOR[2,LONG],
RELDESC: VECTOR[2,LONG],
TMPFAB: $FAB_DECL,
TMPRAB: $RAB_DECL,
TMPNAM: $NAM_DECL,
TMPNAM: $NAM_DECL,
TMPXABPRO: $XABPRO DECL,
NAMBUF: $BBLOCK[NAM$C_MAXRSS],
SAVEMMH: $BBLOCK[MFR_C_MAXLEN],
PROXAB: REF $BBLOCK,
MMH: $BBLOCK[MFR_C_MAXLEN];
                                                        0497
 360
                                                        0498
 361
362
363
                                                        0499
                                                        0500
                                                        0501
 364
                                                       0502
0503
 365
 366
 367
                                                        0504
                                                        0505
 368
                                                       0506
0507
 369
370
 371
                                                        0508
372
373
                                                        0509
                                                                                       OUTRAB[RAB$L_UBf] = MMH;
OUTRAB[RAB$W_USZ] = MFR_C_MAXLEN;
OUTRAB[RAB$B_RAC] = RAB$C_KEY;
OUTRAB[RAB$L_ROP] = 0;
OUTRAB[RAB$L_CTX] = MAIL$_WRITEERR;
                                                        0510
374
                                                        0511
                                                       0512
0513
375
376
377
                                                        0514
378
                                                        0515
                                                       0516
 379
                                                                                          ! Create the mail message header record
 380
 381
                                                        0518
                                                                                         IF .MSGFLAGS[MCR_V_USE_DATIM] NEQ 0
                                                                                2 THEN CHSMOVE (9, . BATETIME, MMH[MFR_Q_DATIM])
382
```

```
6
                                                                                       16-Sep-1984 01:17:01
14-Sep-1984 12:42:31
                     VAX/VMS PERSONAL MAIL UTILITY
                                                                                                                        VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1
MAIL$SEND_MSG
                                                                                                                                                                          Page 14
V04-000
                     0520
0521
0522
0523
0524
0525
                                ELSE BEGIN
   SGETTIM(TIMADR=MMH[MFR_Q_DATIM]);
IF NOT MAILSCHECK_DATE(.OUTRAB,MMH[MFR_Q_DATIM])
                                      THEN BEGIN
                                           SIGNAL(MAILS_DATIMUSED,2,MMHEMFR_Q_DATIM],UTILSGETFILENAME(.OUTRAB));
RETURN MAILS_DATIMUSED;
                     0526
0527
                                           END:
                             END;

END;

2 MSGHDR = MMH[MFR_T_DATA];

2 PTR = MSGHDR[MMH_Q_DATID];

2 (.PTR)<0,32,0> = . (MMH[MFR_Q_DATIM])<16,32,0>;

2 (.PTR)<32,16,0> = . (MMH[MFR_Q_DATIM])<48,16,0>;

2 (.PTR)<48,16,0> = 4;

2 !
                     0528
                     0529
0530
                     396
    397
                                   If message is gtr MAIL$L_SIZLIM blocks, then deliver message to a sequential file.
   398
   399
                             EXTMSG = 0:
2 IF .CNCTDESC[CNCT_L_MSGBLKS] GTRU .MAIL$L_SIZLIM
3 THEN_BEGIN _ 1.
   400
   401
   402
   403
                                     OUTNAM = .OUTRAB[RAB$L_FAB];
PROXAB = .OUTNAM[FAB$L_XAB];
   404
                             3
3
3
   405
                                                                                       !Protection XAB first in chain
   406
                                           Zero XAB happens only if COPY command into current file.
   407
                     0544
                                      IF .PROXAB EQL D
                     0545
   408
                                      THEN BEGIN
   409
                  P 0546
                                           $XABPRO_INIT(XAB=TMPXABPRO,
   410
                     47د0
                                                      `(0=TXN`
   411
                     0548
                                           TMPXABPRO[XAB$L_UIC] = .MAIL$L_MYUIC;
   412
                     0549
                                           PROXAB = TMPXABPRO:
                     0550
   414
                     0551
                                     PROXAB[XAB$W_PRO] = SND_PRO;
PROXAB[XAB$L_NXT] = 0;
                     0552
0553
                                     OUTNAM = .OUTNAM[FAB$L_NAM];
DEVDIRDESC[O] = .OUTNAM[NAM$B_DEV] + .OUTNAM[NAM$B_DIR];
   416
                     0554
                     0555
                                     DEVDIRDESC[1] = .OUTNAM[NAM$L]DEV];
   0556
                                     RECDESCEOJ = NAMSC MAXRSS:
                     0557
                                      RECDESC[1] = NAMBUF;
                     0558
                                      IF NOT MAILSCHECK_DATE(.OUTRAB, MSGHDR[MMH_Q_DATID], DEVDIRDESC)
                     0559
                                      THEN BEGIN
                     0560
                                           SIGNAL (MAILS_DATIMUSED, 2, MSGHDR[MMH_Q_DATID],
UTILSGETFILENAME(.OUTRAB));
                     0561
                     0562
                                           RETURN MAILS_DATIMUSED;
                     0563
                                           END:
                                     SYSSFAO(MAILSSD_EXTMSGNAM, RECDESC, RECDESC, DEVDIRDESC,. (MSGHDR[MMH_Q_DATID]) <32,32,0>,
                     0564
                     0565
                     0566
                                                       .(MSGHDR[MMH_Q_DATID])<0,32,0>);
                                     $FAB_INIT(FAB=TMPFAB,
FNS=.RECDESC[0],
                  P 0567
                  P 0568
                  P 0569
                                           FNA=.RECDESC[1]
                  P 0570
                                           ALQ=.CNCTDESCCCNCT_L_MSGBLKS],
                  P 0571
                                           CTX=MAIL$_OPENOUT,
                  P 0572
P 0573
                                           NAM=TMPNAM
                                           XAB=.PROXAB
                  P 0574
                                           FAC=(PUT, TRN),
                  P 0575
                                           FOP=SQO.
   439
                  P 0576
                                           RFM=VAR,
```

```
H 6
MAIL$SEND_MSG
                                                                                           16-Sep-1984 01:17:01
                      VAX/VMS PERSONAL MAIL UTILITY
                                                                                                                             VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                Page
V04-000
                                                                                           14-Sep-1984 12:42:31
                                                                                                                             DISK$VMSMASTER: [MAIL.SRC]SENDMSG. 832; 1
                                             RAT=(R);
    441
                      0578
   442
                      0579
                                        IF .MSGFLAGS[MCR V EXEC]
                      0581
05881
05883
05885
05885
                                             THEN TMPFAB(FABSV_LNM_MODE) = PSLSC_EXEC;
   445
                                          If rab in the cnct block is the message source, we can use block i/o
                                          to transfer the message.
    447
    448
                                        TFAB = .GET_RAB[RAB$L_FAB];
   449
450
451
452
453
455
457
458
459
460
                      0586
                      0587
                                          Send in block mode only if input file has variable length records
                      0588
                                          or VFC format.
                      0589
                      0590
                                        if (.MSGFLAGS[MCR_v_CNCT_RAB] NEQ 0) AND
  ((.TFAB[FAB$B_RFM] EQL FAB$C_VAR) OR (.TFAB[FAB$B_RFM] EQL FAB$C_VF())
                      0591
0592
0593
                                        THEN BEGIN
                      0594
0595
                                                If file is open with fab$v_bro set, then we can enable block i/o. Copy file attributes, and disconnect/reconnect if not already in
                      0596
                                                block mode
                      0597
0598
    461
                                             IF .TFAB[FAB$V_BRO]
   462
463
                      0599
                                             THEN BEGIN
                      0600
                                                   TMPFAB[FAB$B_RAT] = .TFAB[FAB$B_RAT];
TMPFAB[FAB$B_RFM] = .TFAB[FAB$B_RFM];
   464
                      0601
                                                   IF NOT .GET_RAB[RAB$V_BIO] THEN BEGIN
   465
                      0602
   466
                      0603
                                                        SDISCONNECT(RAB=GET_RAB);
GET_RAB[RAB$V_BIO] = TRUE;
GET_RAB[RAB$L_UBF] = .MAIL$GL_BIGBUFFER;
GET_RAB[RAB$W_USZ] = .MAIL$GL_BIGBUFSIZ*512;
IF_ERR($CONNECT(RAB=GET_RAB,ERR=UTIL$REPORT_IO_ERROR);,
RETURN .STATUS);
   467
                      0604
   468
                      0605
   469
                      0606
   470
                      0607
   471
472
473
                   P 0608
                      0609
                      0610
                                                         END:
   474
                      0611
                                                   END;
                   0612
P 0613
                                             END:
   476
477
478
479
480
                                       $RAB_INIT(RAB=TMPRAB,
                   P 0614
                                             FAB=TMPFAB
                      0615
                                             CTX=MAIL$_OPENOUT);
                      0616
                      0617
                                        TMPFAB[FAB$v_BRO] = TMPRAB[RAB$v_BIO] = .GET_RAB[RAB$v_BIO];
   481
                      0618
   483
484
485
486
488
499
123
495
                   P 0619
                                        $NAM_INIT(NAM=TMPNAM,
                   P 0620
P 0621
P 0622
0623
0624
P 0625
                                             ESS=NAMSC_MAXRSS,
                                             ESA=NAMBUF
                                             RSS=NAMSC_MAXRSS,
                                             RSA=NAMBUF):
                                        If_ERR($CREATE(FAB=TMPFAB,ERR=UTIL$REPORT_10_ERRGR);,
                      0626
0627
0628
                                                         RETURN .STATUS);
                                        IF NOT .TMPFAB[$FAB_DEV(DIR)]
                                             OR .TMPFABESFAB_DEV(FOR)]
                      0629
0630
                                        THEN BEGIN
                                             SCLOSE (FAB=TMPFAB);
                      0631
0632
0633
                                             TMPFAB[FAB$L_STS] = SS$_IVDEVNAM;
TMPFAB[FAB$L_STV] = 0;
```

RETURN SIGNAT (SS\$_IVDEVNAM)

496

VC

```
6
                                                                             16-Sep-1984 01:17:01
14-Sep-1984 12:42:31
MAILSSEND_MSG
                   VAX/VMS PERSONAL MAIL UTILITY
                                                                                                           VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1
                                                                                                                                                       Page
V04-000
                0634
0635
P 0636
P 0637
P 0638
0639
   497
                                       END:
   498
   499
                                  IF_ERR($CONNECT(RAB=TMPRAB, ERR=UTIL$REPORT_IO_ERROR);,
   500
                                                 TMPFAB[FAB$V_DLT] = TRUE;
   5012
503
504
506
506
507
509
                                                $CLOSE(FAB=TMPFAB):
                                                RETURN .STATUS);
                   0640
                                  RECOUNT = 0:
                   0641
                                  TMPRAB[RAB$L_CTX] = MAIL$_WRITEERR:
                   0642
                                  WHILE 1
                                  DO BEGIN
                                      0644
                   0645
                   0646
                                                     THEN EXITLOOP
   510
                   0647
                                                     ELSE BEGIN
   511
                P 0648
                                                          UTILSREPORT_IO_ERROR(CNCTDESC[CNCT_T_RAB]);

TMPFAB[FAB$V_D[T] = TRUE;
                P 0649
P 0650
P 0651
0652
0653
0654
   512
513
                                                          $CLOSE(FAB=TMPFAB);
   514
                                                          RETURN .STATUS;
   515
                                                          END):
   516
                                      IF NOT .TMPRAB[RAB$V_BIO]
                                           AND .RECDESCEOJ GEQU 2
AND .(.RECDESCEIJ + .RECDESCEOJ -2)<0,16>
   517
  0656
0657
                                                                   EQLU (CR OR LF^8)
                                           THEN RECDESC[0] = .RECDESC[0] - 2
                P 0658
P 0659
                                      IF_ERR(PUT_SEND_MSG(.RECDESC[O],.RECDESC[1],
                                                                    TMPRAB):
                P 0660
                                                TMPFAB[FAB$V_DLT] = TRUE;
                P 0661
                                                $CLOSE(FAB=TMPFAB);
                   0662
                                                RETURN .STATUS);
                                      RECOUNT = .RECOUNT + 1;
                   0664
                                      END:
                   0665
                   0666
                                    If block mode copy and we don't know number of records from a previous
                   0667
                                    delivery, then read the file in record mode and compute the # records
                   0668
                   0669
                                  IF .TMPRAB[RAB$V_BIO]
                   0670
0671
0672
0673
0674
0675
                                 THEN IF (RECOUNT = .CNCTDESC[CNCT_L_NRECS]) EQL O
                                  THEN BEGIN
                                      $DISCONNECT(RAB=TMPRAB)
                                      TMPRAB[RAB$V_BIO] = false;
TMPRAB[RAB$W_USZ] = MAIL$K_INBUFFSZ;
TMPRAB[RAB$L_UBF] = CNCTDESC[CNCT_T_BUFFER];
                   0676
0677
0678
0679
                                      IF $CONNECT(RAB=TMPRAB, ERR=UTIL$REPORT_10_ERROR)
                                      THEN WHILE SGET (RAB=TMPRAB)
                                           DO RECOUNT = .RECOUNT + 1:
                                 TMPFABEFAB$L_CTX] = MAIL$_CLOSEOUT;
                   0680
                                 $CLOSE(FAB=TMPFAB,ERR=UTI[$REPORT_10_ERROR);
                   0682
0683
   545
   546
                   0684
0685
   547
                               Not too big, ensure date/time key not used
   548
   549
550
                   0686
                            ELSE IF NOT MAIL$CHECK_DATE(.OUTRAB,MSGHDR[MMH_Q_DATID])
                          3 THEN BEGIN
                   0687
   551
552
                   0688
                                 SIGNAL (MAILS_DATIMUSED, 2, MSGHDR[MMH_Q_DATID],
UTILSGETFILENAME(TOUTRAB));
                   0689
   553
                   0690
                                 RETURN MAIL$_DATIMUSED;
```

VC

** ** ** ** ** ** ** ** **

VAX-11 Bliss-32 V4.0-742 Page 1 DISK\$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1 (9

```
0691
                                                 END:
0692
0693
                                             Write the message date/id record to the file to "reserve" it. Only
                          0694
                                             one 8-byte record is written, which is deleted after the message has
                          0695
                                             been delivered, unless we just finished writing an external message file.
                          0696
                                             In that case, the 8-byte record is deleted when the message is deleted.
                          0697
                                    P 0698
                          0699
                                         SAVERFA[0] = .OUTRAB[RAB$L_RFA0];
SAVERFA[1] = .OUTRAB[RAB$W_RFA4];
                          0700
                                                                                                                                      !Save the header rfa
564
                          0701
                                    Create the message header record

CH$COPY(.FOLDER_DESC[DSC$W_LENGTH],.FOLDER_DESC[DSC$A_POINTER],0,

MFR_S_FILEREY,MMH[MFR_T_FILEKEY]):

MMH[MFR_B_FILKEYLEN] = .FOLDER_DESC[DSC$W_LENGTH];

MSGHDR[MMH_W_FLAGS] = 0;

IF .MSGFLAGS[MCR_V_SND_NEWMSG]

THEN MSGHDR[MMH_V_EXTMSG] = .EXTMSG;

MSGHDR[MMH_W_EXTMSG] = .EXTMSG;

MSGHDR[MMH_B_FLAGSIZ] = 0;

MSGHDR[MMH_B_FLAGVAL] = 0;

MSGHDR[MMH_B_HDSPARE] = 0;

OUTRAB[RAB$L_ROP] = 0;

If we are to signal a "new folder", then look for it now
                         0702
0703
565
566
567
                          0704
                          0705
568
                          0706
569
                         0707
0708
570
571
572
573
574
575
                          0709
                         0710
                         0711
                         0712
576
577
                          0714
578
                          0715
                         0716
579
                                    2 If we are
2 IF .MSGFLAG
3 THEN BEGIN
580
                          0717
                                         ! If we are to signal a 'new folder', then look for it now
581
                          0718
582
                         0719
                                         IF .MSGFLAGSEMCR_V_TELL_NEWJ
                        0720
0721
0722
0723
(724
0725
0726
0727
0728
0729
0730
583
                                                OUTRAB[RAB$L_ROP] = RAB$M_NLK;
OUTRAB[RAB$L_KBF] = MMH[MFR_T_FILEKEY];
OUTRAB[RAB$B_KSZ] = MFR_S_FILEKEY;
584
585
586
587
                                                 OUTRAB[RAB$B_KRF] = 1
                                  IF NOT $FINDTRAB=.OUTRAB)

THEN $IGNAL (MAIL$_NEWFOLDER,1,.FOLDER_DESC);

OUTRABERAB$L_ROP] = 0;

OUTRABERAB$B_KSZ] = 8;

OUTRABERAB$B_KRF] = 0;

END;

PTR = MSGHDREMMH_T_MISCDAT];

PTR[0] = MMH_C_FROM;

PTR[1] = .FROM_DESCEDSC$W_LENGTH];

PTR[0] = MMH_C_TO;

PTR[0] = MMH_C_SUBJ;
588
                                                 IF NOT $FIND(RAB=.OUTRAB)
589
590
591
592
593
                          0731
594
                         0732
0733
595
596
                         0734
0735
597
598
                         0736
0737
599
600
                                   / PIR = CH$MOVE(.PTR[1],.TO_DESCEDSC$A_POINTER],PTR[2]);

/ PTR[0] = MMH_C_SUBJ;

/ PTR[1] = .SUBJ_DESCEDSC$W_LENGTH];

/ PTR = CH$MOVE(.PTR[1],.SUBJ_DESCEDSC$A_POINTER],PTR[2]);

/ PTR[0] = MMH_C_NREC;

/ PTR[1] = 4;

/ PTR[1] = 4;

/ PTR[1] = 4;

/ IF .EXTMSG

/ THEN PTR1[0] = PECOUNT
                          0738
601
                          0739
602
603
                          0740
604
                          0741
                         0742
605
606
607
                          0744
                          0745
608
                         0746
609
                                                 THEN PTR1[0] = .RECOUNT
                                                                                                                       !If external message, count known
610
                          0747
                                                 ELSE PTR1[0] = 0;
                                                                                                                       ! otherwise store a zero until Supdated
```

```
16-Sep-1984 01:17:01
14-Sep-1984 12:42:31
                                                                                                               VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1
MAIL$SEND_MSG
                  VAX/VMS PERSONAL MAIL UTILITY
V04-000
                    0748
                              SIZEOFF = PTR[2]-MMH;
                    0749
0750
0751
0752
0753
   612
                             PTR = PTR[4]
                             MMHLEN = .PTR-MMH:
   614
   615
                                Write the message header record
   616
                           2 IF_ERR(PUT_NEW_REC(.MMHLEN,MMH,.OUTRAB);,
                 P 0754
0755
0756
0757
0758
0759
   617
   618
                                                  RETURN .STATUS):
   619
   6666666666663345666338
                                If message is small enough to fit into the isam file, then read the
                                message and pack the message and write it.
                          2 IF NOT .EXTMSG
3 THEN BEGIN
                    0760
                    0761
                    0762
0763
                                   IF .GET_RAB[RAB$V_BIO]
THEN BEGIN
                                                                                 !Ensure not connected for block mode
                                       SDISCONNECT(RAB=GET_RAB);

GET_RAB[RAB$V_BIO] = fALSE;

GET_RAB[RAB$W_USZ] = MAIL$K_INBUFFSZ;

GET_RAB[RAB$L_UBF] = CNCTDESC[CNCT_T_BUFFER];

IF_ERR($CONNECT(RAB=GET_RAB,ERR=UTIL$REPORT_IO_ERROR);,
                    0764
                    0765
                    0766
                    0767
                 P 0768
                    0769
0770
                                                  RETURN .STATUS);
                                        END
                                   MMHRFA[0] = .OUTRAB[RAB$L_RFA0];
MMHRFA[1] = .OUTRAB[RAB$W_RFA4];
                    0771
                    0772
                    0773
                                   RECOUNT = 0:
                    0774
                                   CH$MOVE (.MMHLEN, MMH, SAVEMMH):
                    0775
                    0776
   639
                                     Read the message, pack the records and write them to the message file
                    0777
   640
                    0778
                                   CH$MOVE(8, MSGHDR[MMH_Q_DATID], MMH[MFR_Q_DATIM]);
CH$FILL(0, MFR_S_FILEREY+1, MMH[MFR_B_FILREYLEN]);
   641
   642 643
                    0779
                                   INIT_PACK_RECTRECLEN); WHILE 1
                    0780
                                                                                           !Initialize to pack records
   644
                    0781
                 0782
P 0783
   645
                                   DO BEGIN
                                        646
   647
                 P 0784
   648
                 P 0785
                                                       THEN EXITLOOP
   649
                    0786
                                                       ELSE RETURN UTIL$REPORT_IO_ERROR(CNCTDESC[CNCT_T_RAB]));
                    0787
   651
                    0788
                                          If record is terminated with a CR/LF, strip it. This type of
   65<u>2</u>
653
                    0789
                                           record is produced by DEC Standard Runoff.
                    0790
   654
655
                                        if .RECDESC[0] GEQU 2
AND .(.RECDESC[1] + .RECDESC[0] - 2)<0.16>
                    0791
                    0792
0793
                                                                                          EQLU (CR OR LF^8)
   656
   657
                    0794
                                             THEN RECDESC[0] = .RECDESC[0] - 2;
   658
                    0795
                                        RECOUNT = .RECOUNT + 1;
   659
                 P 0796
                                        IF_ERR(PACK_NEW_REC(.RECDESC[0],.RECDESC[1],
                                                            RECLEN, MMH, .OUTRAB);,
RETURN .STATUS);
                 P 0797
   660
                    0798
   661
                    0799
   662
                                        END:
   663
                    0800
                 P 0801
   664
                                   If_ERR(END_PACK(.RECLEN,MMH,.OUTRAB);,
                    0802
                                                  RETURN .STATUS);
   665
   666
   667
                    0804
                                   ! Update the mail message header record to have the correct
```

K 6

```
M
```

```
6
                                                                               16-Sep-1984 01:17:01
14-Sep-1984 12:42:31
MAIL$SEND_MSG
                   VAX/VMS PERSONAL MAIL UTILITY
                                                                                                             VAX-11 Bliss-32_V4.0-742
                                                                                                                                                           Page 19
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                                                                                                             DISKSVMSMASTER: [MAIL.SRC] SENDMSG.B32:1
                    0805
                                   ! record count in it
                   0806
0807
   669
                                  OUTRAB[RAB$L_RFA0] = .MMHRFA[0];
OUTRAB[RAB$W_RFA4] = .MMHRFA[1];
OUTRAB[RAB$B_RAC] = RAB$C_RFA;
   670
   671
672
673
674
675
676
                    8080
                    0809
                                   IF $FIND(RAB=.OUTRAB, ERR=UTIL$REPORT_10_ERROR)
                    0810
                    0811
                                   THEN BEGIN
                   0812
0813
0814
0815
0816
0817
0818
0821
0821
0823
0824
0825
                                       OUTRAB[RAB$W_RSZ] = .MMHLEN;
SIZEOFF = SAVEMMH + .SIZEOFF;
                                        SIZECFF[0] = .RECOUNT;
   678
                                        OUTRAB[RAB$L_RBF] = SAVEMMH;
   679
                                       $UPDATE(RAB=TOUTRAB,ERR=UTIL$REPORT_IO_ERROR);
   680
                                       END:
   681
   682
                                     Delete the marker record
   683
   684
                                  OUTRAB[RAB$L_RFAO] = .SAVERFA[O];
   685
                                  OUTRABERAB$WTRFA4] = .SAVERFA[1];
   686
                                   IF_ERR($FIND(RAB=.OUTRAB);;
   687
                                       RETURN TRUE):
   688
                   0826
   689
                                  $DELETE(RAB=.OUTRAB):
                   0827
   690
                                  END:
                   0828
   691
   692
                   0829
                             RETURN TRUE
   693
                   0830
                           1 END:
                                                                                            .EXTRN
                                                                                                     SYSSGETTIM, SYSSDISCONNECT
                                                                                            .EXTRN
                                                                                                      SYS$CONNECT, SYS$CREATE
                                                                                            .EXTRN SYSSCLOSE, SYSSFIND
.EXTRN SYSSUPDATE, SYSSDELETE
                                                                    OFFC 00000
                                                                                            .ENTRY MAIL$WRITE_MSG, Save R2,R3,R4,R5,R6,R7,R8,-; 0463
                                                                                                      R9,R10,R11
-4728(SP), SP
                                                   ED88
00000286
                                                                  CE
8F
                                                                      9E 00002
                                                                                            MOVAB
                                                ĀČ
                               50
                                          08
                                                                      c1 00007
                                                                                                      #646, CNCTDESC, RO
                                                                                            ADDL3
                                                                                                                                                               0481
                                                                      9E 00010
C1 00013
                                                58
                                                                  60
                                                                                            MOVAB
                                                                                                      (RO), R8
                                                                  ŠÕ
                               50
                                          80
                                                                                                      #8, CNCTDESC, RO
                                                AC
                                                                                            ADDL3
                                                                                                                                                               0482
                                                                  50
                                                                      DD 00018
                                                                                            PUSHL
                                                                                                      R0
                               50
                                                                  10
                                          80
                                                                      C1 0001A
                                                                                            ADDL3
                                                AC
                                                                                                      #16, CNCTDESC, RO
                                                                                                                                                               0483
                                                                  50
                                                                      DD 0001F
                                                                                            PUSHL
                                                                                                      R0
                               50
                                          80
                                                                      C1 00021
                                                                                            ADDL3
                                                AC
                                                                                                      #24. CNCTDESC, RO
                                                                                                                                                               0484
                                                                  ŠŎ
                                                                      DD 00026
                                                                                            PUSHL
                                                                                                      R0
                                                                                                     OUTRAB, R6
MMH, 36(R6)
#2048, 32(R6)
                                                                  AC
                                                                      DO 00028
                                                                                                                                                               0510
                                                                                            MOVL
                                          24
20
1E
                                                           18
                                                                  AE
                                                                       9E 0002C
                                                                                            MOVAB
                                                A6
                                                         0800
                                                                  8F
                                                                      BO 00031
                                                A6
                                                                                            MOVW
                                                                       90 00037
                                                A6
                                                                  01
                                                                                                      #1, 30(R6)
4(R6)
                                                                                                                                                               0512
                                                                                            MOVB
                                                                  Å6
                                                                      D4 0003B
                                                                                                                                                               0513
                                                                                            CLRL
                                                A6 007E10D0
                                                                  8F
                                                                      DO 0003E
                                                                                                      #8261840, 24(R6)
                                                                                                                                                               0514
                                                                                            MOVL
                                                                                                      #4, MSGFLAGS, 18
#9, adatetime, mmh
                                                                       E1 00046
                                          10
                                                AC
                                                                                            BBC
                                                                                                                                                               0518
                                                                       28 0004B
                                                BČ
                         18
                               AE
                                                                  09
                                                                                            MOVC3
                                                                                                                                                               0519
                                                                                            BRB
                                                                                                      2$
                                                            18
                                                                      9F 00053 18:
                                                                                            PUSHAB
                                                                                                                                                               0521
                                                                                                      MMH
                                                                                                      #1, SYS$GETTIM
                                   0000000G
                                                                  01
                                                                      FB 00056
                                                00
                                                                                            CALLS
                                                                       9F 0005D
                                                            18
                                                                                            PUSHAB
                                                                                                                                                               0522
                                                                  AE
                                                                                                      MMH
```

MAIL\$SEND_MSG V04-000	VAX/VMS	PERSONAL MAIL UTILITY	M 6 16-Sep-1984 01:17:01 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:42:31 DISK\$VMSMASTER:[MAIL.SRC]SENDMS	Page 20 GG.B32;1 (9)
		00000000G 00 11 00000000G 00	56 DD 00060 PUSHL R6 02 FB 00062 CALLS #2, MAIL\$CHECK_DATE 50 EB 00069 BLBS R0, 2\$ 56 DD 0006C PUSHL R6 01 FB 0006E CALLS #1, UTIL\$GETFILENAME 50 DD 00075 PUSHL R0 1C AE 9F 00077 PUSHAB MMH	0524
		0C AE 59 69 04 A9 06 A9 50 00000000G 00	0310 31 0007A BRW 23\$ 48 AE 9E 0007D 2\$: MOVAB MMH+48, MSGHDR 08 AA 9E 00081 MOVAB 8(MSGHDR), 12(SP) 0C AE DO 00086 MOVL 12(SP), PTR 1A AE DO 0008A MOVL MMH+2, (PTR) 1E AE BO 0008E MOVW MMH+6, 4(PTR) 04 BO 00093 MOVW W4, 6(PTR) 10 AE D4 00097 CLRL EXTMSG 3C C1 0009A ADDL3 #60, CNCTDESC, RO 60 D1 0009F CMPL (RO), MAIL\$L_SIZLIM	0528 0529 0530 0531 0532 0537 0538
0058 8f		10 AE 57 5B 00 6E	02C5 31 000A8 BRW 21\$ 01 D0 000AB 3\$: MOVL #1, EXTMSG 3C A6 D0 000AF MOVL 60(R6), OUTNAM 24 A7 D0 000B3 MOVL 36(OUTNAM), PROXAB 1F 12 000B7 BNEQ 4\$ 00 2C 000B9 MOVC5 #0, (SP), #0, #88, \$RMS_PTR	0540 0541 0542 0544 0547
		08 AB 57 50 51	5813 8F B0 000C3 MOVW #22547, \$RMS_PTR 000000G 00 D0 000CA MOVL MAIL\$L_MYUIC, TMPXABPRO+12 FE94 CD 9E 000D3 MOVAB TMPXABPRO, PROXAB 34 AE 000D8 4\$: MNEGW #52, 8(PROXAB) 04 AB D4 000DC CLRL 4(PROXAB) 28 A7 D0 000DF MOVL 40(OUTNAM), OUTNAM 39 A7 9A 000E3 MOVZBL 57(OUTNAM), RO 3A A7 9A 000E7 MOVZBL 58(OUTNAM), R1	0548 0549 0551 0552 0553 0554
	FO	AD 50 F4 AD E0 AD E4 AD	FF 8F 9A 000F5 MOVZBL #255, RECDESC FD94 CD 9E 000FA MOVAB NAMBUF, RECDESC+4 F0 AD 9F 00100 PUSHAB DEVDIRDESC 10 AE DD 00103 PUSHL 16(SP) 56 DD 00106 PUSHL R6 03 FB 00108 CALLS #3. MAIL SCHECK DATE	0555 0556 0557 0558
0^50 8f			026A 31 00112 BRW 22\$ 0C BE DD 00115 5\$: PUSHL a12(SP) 0C AA DD 00118 PUSHL 12(MSGHDR) F0 AD 9F 0011B PUSHAB DEVDIRDESC E0 AD 9F 0011E PUSHAB RECDESC E0 AD 9F 00121 PUSHAB RECDESC 00000G U0 9F 00124 PUSHAB MAIL\$SD_EXTMSGNAM 06 FB 0012A CALLS M6, SYS\$FAO 00 2C 00131 MOVC5 M0, (SP), M0, M80, \$RMS PTR	0566 0565 0564
		90 AD 94 AD 50 08 AC AO AD A6 AD	90 AD 00138 5003 8F BO 0013A MOVW #20483, \$RMS_PTR 40 8F 9A 00140 MOVZBL #64, \$RMS_PTR+4 3C C1 00145 ADDL3 #60, CNCTBESC, RO 60 DO 0014A MOVL (RO), \$RMS_PTR+16 11 90 0014E MOVB #17, \$RMS_PTR+22	

MAIL\$SEND	_MSG	VAX/VMS	PER:	SONAL MAIL (UT I	LITY					984 01:17 984 12:42		742 Pac SRC]SENDMSG.B32;1	ge 21 (9)
DA	AD		06 02 4D	A8 AE B4 B8 BC C1 11	ADD	007E10A2 0202 FEEC E4 E0 3C 1F	8FF SDD AD 01 A8 06 00 A0	91	00152 0015A 00160 00164 0016A 0016F 00179 0017F 00183 00188 0018F		MOVL MOVU MOVAB MOVB BBC INSV MOVL BBC CMPB BEQL CMPB	B261794, \$RMS PTR+24 514, \$RMS PTR+30 ROXAB, \$RMS PTR+36 MPNAM, \$RMS PTR+40 ECDESC+4, \$RMS PTR+52 1, MSGFLAGS+T, 6\$ 1, WO, W2, TMPFAB+74 O(R8), TFAB 6, MSGFLAGS, 8\$ 1(TFAB), W2		0579 0580 0585 0590 0591
			3C 32	16 A E 05	AO AD A8	1E	41 06 A0 03 58	12 E1 B0 E0	00192 00194 00199 0019E	7\$:	BNEQ BBC Movw BBS	\$ 6, 22(TFAB), 8\$ 0(TFAB), TMPFAB+30 3, 5(R8), 8\$		0598 0600 0602
		20	A8	00000000G 05 24 00000000G	00 A8 A8 00	00000000G 0200 00000000G	01 08 00 8f 00 58	FB8 D5 9F	0018C 0018E 00192 00199 0019E 001A5 001AC 001B8 001C9 001D5 001D5		PUSHL CALLS BISB2 MOVL MULW3 PUSHAB	1, SYS\$DISCONNECT 8, 5(R8) AIL\$GL_BIGBUFFER, 36(R8) 512, MAIL\$GL_BIGBUFSIZ, 32 TIL\$REPORT_IO_ERROR	(R8)	0604 0605 0606 0607 0609
0044	8F		00	00000000	00 68 6E	FF4C	02 50 00	FB E9 20	001CB 001D2 001D5 001DC	8\$:	CALLS BLBC MOVC5	2, SYS\$CONNECT TATUS, 9\$ 0, (SP), #G, #68, \$RMS_PTR		0615
FF51 A6 0060	50 CD AD 8F	05	A8 01 01 00	FF4C FF64 88	CD CD AD 01 03 06 6E	4401 007E10A2 90	CD 8F 8F AD 03 50	B0 9E F0 F0	001DF 001E6 001EF 001F4 001FA		MOVW MOVL MOVAB EXTZV INSV INSV MOVC5	17409, \$RMS_PTR 8261794, \$RMS_PTR+24 MPFAB, \$RMS_PTR+60 3, #1, 5(R8), R0 0, #3, #1, TMPRAB+5 0, #6, #1, TMPFAB+22 0, (SP), #0, #96, \$RMS_PTR		0617 0623
				FEEC FEEE FEFO FEF6 FEF8	CD CD CD CD	FD94 000000006 90	CD 8F 01 CD 01 CD 0A 02 50	B0 8 8 8 9 9 F 9 F R	0020E 00211 00218 0021D 00224 00229 00230 00236 00236		MOVW MNEGB MOVAB MNEGB MOVAB PUSHAB PUSHAB	24578, \$RMS_PTR 1, \$RMS_PTR∓2 AMBUF, \$RMS_PTR+4 1, \$RMS_PTR∓10 AMBUF, \$RMS_PTR+12 TIL\$REPORT_IO_ERROR MPFAB 2, SYS\$CREATE TATUS, 10\$		0626
			04	DO	01 AD 20 00 AD 7E 00	03 90 0144 90 0144 000000006 FF4C	50 03 AD 01 8F AD 01 00 CD	ĔÌ	002449 002449 00250 00257 00257 00265 00260	10\$:	CALLS BLBS RET BBC BLBC PUSHAB CALLS MOVZWL CLRL MOVZWL CALLS RET PUSHAB PUSHAB	TÁTUS, 10\$ 3. TMPFAB+64, 11\$ MPFAB+67, 12\$ MPFAB 1. SYS\$CLOSE 324, TMPFAB+8 MPFAB+12 324, -(SP) 1. LIB\$SIGNAL TIL\$REPORT_10_ERROR		0627 0628 0630 0631 0632 0633

VAX/VMS	PER	SONAL MAIL	UTII	LITY			16 14	3 7 5-Sep- 4-Sep-	·1984 01:17 ·1984 12:42	7:01 VAX-11 Bliss-32 V4.0-742 Pa 2:31 DISK\$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1	ge 22 (9)
		000000006	00 52 5F		02 50 52 58	DO 00 E9 00	277 27E 281		CALLS MOVL BLBC	#2, SYS\$CONNECT RO, STATUS STATUS, 16\$:
		FF64	CD	007E10D0	8F 58	D4 00 D0 00 DD 00	28F	13\$:	CLRL MOVL PUSHL	RECOUNT #8261840, TMPRAB+24 R8	: 0640 : 0641 : 0652
		04	BC 52	E0	AD 02 50 52	DO 00	291 294 298		PUSHAB CALLS MOVL	RECDESC #2, aget routine RO, status Status, 14\$: :
		0001827A	14 8f		52 53 58	E8 00 01 00 13 00 00 00	29B 29E 2A5 2A7		BLBS (MPL BEQL	STATUS, #98938 18\$ R8	:
		0000000G	00		01 31	FR OO	710		PUSHL CALLS	#1 UTIL\$REPORT_IO_ERROR	:
	18	FF51	05 CD	EO	03 AD 12	EO 00 D1 00 1F 00	2B2 2B8 2BC	14\$:	BRB BBS CMPL BLSSU	#3, TMPRAB+5, 15\$ RECDESC, #2 15\$	0653 0654
	50	E4 OAOD	AD 8F	EO FE	AD AO 04	C1 00 B1 00	2BE 2C4 2CA		ADDL3 CMPW BNEQ	RÉCDESC, RECDESC+4, RO -2(RO), #2573 15\$: 0655 : 0656
		EO	AD	FF4C	ŎŽ CD	C2 00	2CC	15\$:	SUBL 2 PUSHAB	NZ, RECDESC TMPRAB	; 0657 ; 0662
		F C 4 4	7E CF 52 13	ĚŎ	AD 03 50 52	7D 00 FB 00 D0 00	204 208 200		MOVQ CALLS MOVL	RECDESC, -(SP) #3, PUT_SEND_MSG R0, STATUS	;
		95	AD	80	8F	E8 00 88 00	2E3	16\$:	BLBS BISB2	STATUS, 17\$ #128, TMPFAB+5	; ;
		000000006	00 50	90	AD 01 52	FB 00 00 00 04 00	2E8 2EB 2F2 2F5		PUSHAB CALLS MOVL RET	TMPFÅB #1, SYS\$CLOSE STATUS, RO	•
					5B 95	D6 00	2F6 2F8	17\$:	INCL BRB	RECOUNT 13\$	0663
	56 50	FF51 08	CD AC 5B	00000064	03 8F 60	D6 00 11 00 E1 00 C1 00 D0 00	2FA 300 309	18\$:	BBC ADDL3 MOVL	#3, TMPRAB+5, 20\$ #100, CNCTDESC, RO (RO), RECOUNT	0669
		00000000	00	FF4C	48 CD	DO 00 12 00 9F 00 FB 00 8A 00	30E		BNEQ PUSHAB	20\$ TMPRAB	0672
		0000000G FF51	00	0200	01 08	8A 00	319		CALLS BICB2	#1, SYS\$DISCONNECT #8, TMPRAB+5	0673
F F 70	CD	FF6C 08	AC	0200 00000086 000000006	8F 8F 00 CD	C1 00	31E 325 330 336		MOVW ADDL3 PUSHAB	#1, SYS\$DISCONNECT #8, TMPRAB+5 #512, TMPRAB+32 #134, CNCTDESC, TMPRAB+36 UTIL\$REPORT_IO_ERROR	: 0674 : 0675 : 0676
		00000006	00 12	FF4C	02 50	FB 00	33A 341		PUSHAB CALLS BLBC	TMPRAB #2, SYS\$CONNECT	•
		0000000G	00	FF4C	CD	9F 00	344	19\$:	PUSHAB CALLS	RO, 20\$ TMPRAB #1, SYS\$GET	0677
			04		50 5B	FB 00 E9 00 D6 00 11 00	34f 352		BLBC Incl	RO, 20\$ RECOUNT	0678
		A8	AD	007E1058 00000000G	EE 8F 00 AD	00 00	320 35E	20\$:	BRB MOVL PUSHAB PUSHAB	19\$ #8261720, TMPFAB+24 UTIL\$REPORT_IO_ERROR TMPFAB	0680 0681
		0000000G	00	70	02 34	fB 00 11 00	367 36E		CALLS BRB	#2, SYS\$CLOSE	0538

					00	AE 56 02 50	DD DD	00373	21\$:	PUSHL PUSHL	12(SP) R6	: 0686
			00000000	00 25)	02 50	FB E8	00375 00370		CALLS BLBS	#2, MAIL\$CHECK_DATE R0, 24\$	
			0000000G	00	1	56 01	DD FB	0037F	22 \$:	PUSHL CALLS	R6 #1, UTIL\$GETFILENAME	0689
			0000000G	00 50	10 007E80A2 007E80A2	50 AE 02 8F 04 8F	DD DD DD F DO	0038A 0038D 0038F 00395	23\$:	PUSHL PUSHL PUSHL PUSHL CALLS MOVL	RO 16(SP) #2 #8290466 #4, LIB\$SIGNAL #8290466, RO	0688
						56	04 DD	003A3	245:	RET PUSHL	R6	0699
			FB71	CF 01	10	AE 08 03 50	DD DD F B E 8 0 4	003A6 003A9 003AB 003B0		PUSHL PUSHL CALLS BLBS RET	16(SP) #8 #3, PUT_SEND_MSG STATUS, 25\$	
			F 8 F C	AD AD	14	A6 A6	D0 30	003B4 003B9	25 \$:	MOVL MOVZWL	16(R6), SAVERFA 20(R6), SAVERFA+4 FOLDER DESC, R7 (R7), 3 4(R7), #0, #39, MMH+9	0700 0701
27		00	04	57 B 7		AC 67	5 C D O	003C2		MOVL MOVC5	FOLDER_DESC, R7 (R7), 3 4(R7), #0, #39, MMH+9	: 0705 : 0706
			20	AE	21	AE 67	90	003C8 003CA		MOVB	(R7), MMH+8	0707
6A		01		03 6A 03	10 10	6A 01 AE	B4 E9 88 F0	003D0 003D4	26\$:	CLRW BLBC BISB2 INSV	(MSGHDR) MSGFLAGS, 26\$ W1, (MSGHDR) EXTMSG, W3, W1, (MSGHDR)	: 0708 : 0709 : 0710 : 0711
				••	02 03 07	AA	94 04 94	003DD 003E0 003E3		CLRB CLRL	2(MSGHDR) 3(MSGHDR)	; 0712 ; 0713
		3A	10 04 30 34	AC A6 A6	04 001000 <u>0</u> 0	AA A6 O5 AE AF 56	04 E10 9E0 BD	003E6 003E9 003EE 003F6 003FB		CLRB CLRL BBC MOVL MOVAB MOVW PUSHL	7(MSGHDR) 4(R6) #5, MSGFLAGS, 28\$ #1048576, 4(R6) MMH+9, 48(R6) #295, 52(R6) R6	: 0714 : 0715 : 0719 : 0721 : 0722 : 0723 : 0725
			0000000G	00 11		01 50 57	FB E8 DD	00403 0040A 0040D		CALLS BLBS PUSHL	#1, SYS\$FIND RO, 27\$ R7	0726
			00000006	00	007EBEAB	01 8F	DD FB	0040F 00411		PUSHL PUSHL	#1 #8306347	
			34	A6	04	03 A6 08	04 B0	0041E	27\$:	CALLS CLRL MOVW	#3, LIB\$SIGNAL 4(R6) #8, 52(R6)	0727
			J 4	59	30	A6 AA	04 9E	00425	285.	CLRL MOVAB	48(R6) 16(R10), PTR	: 0728 : 0730 : 0732
			02			69 BE	84 80	0042C	200.	CLRW MOVW	(PTR) 	0733 0734
	04	57 A9	02 08	A9 AE 97	02	04 A9	(1 28	00433 00438		ADDL3 MOVC3	#4, 8(SP), R7 2(PTP) = 2(PT) + 4(PTP)	0735
	-	• • •		59 69 A 9	•	53 01	DO BO	0043E		MOVL MOVW	R3, PTR #1, (PTR)	0736
		57 A9	02 04	A9 AE 97		BE 04	B0 (1	00444		MOVW	R3, PTR #1, (PTR) a4(SP), 2(PTR) #4, 4(SP), R7 2(PTR), a(R7)+, 4(PTR)	0737 0738
	04	A9		97	02	A9	28	0044E		ADDL3 MOVC3	2(PTR), a(R7)+, 4(PTR)	:

D 7 16-Sep-198 14-Sep-198	34 01:17 34 12:42	: 01 : 31	VAX-11 Bliss-32 V4.0-74 DISK\$VMSMASTER:[MAIL.SR	Page CISENDMSG.B32;1	24 (9)
4 7 A F	MOVL MOVW MOVW ADDL3 MOVC3	R3, F M2, (00(SF M4, (2(PTR	TR PTR)), 2(PTR) SP), R7), a(R7)+, 4(PTR)		0739 0740 0741

	04	57 A9	02	599 699 697 595 505 60	00 02 00040005 04 10	50B0493F93EB0	DO 00454 BO 00457 BO 00458 C1 00458 28 00463 DO 00469 DO 00469 PE 00473 DO 00478 DO 00478		MOVL MOVW ADDL3 MOVC3 MOVL MOVL MOVAB MOVL BLBC MOVL	R3, PTR #2, (PTR) a0(SP), 2(PTR) #4, (SP), R7 2(PTR), a(R7)+, 4(PTR) R3, PTR #262149, (PTR) 4(R9), R3 R3, PTR1 EXTMSG, 29\$ RECOUNT, (PTR1)	0739 0740 0741 0742 0744
		5 A		50 53 59 50	18 18 10	020 AE 508 AE 506 AE	11 00481 D4 00483 9E 00489 C3 00489 C0 00480 9E 00499 C2 00494 DD 00497 9F 00499	30\$:	BRB CLRL MOVAB SUBL3 ADDL2 MOVAB SUBL2 PUSHL PUSHAB	30\$ (PTR1) MMH, R0 R0, R3, SIZEOFF #8, PTR MMH, R0 R0, MMHLEN R6 MMH	0747 0748 0749 0750
			FAB5	CF 38 03	10	AE 59 03 50 AE 110	DD 0049C FB 0049E E9 004A3 E9 004A6 31 004AA		PUSHL CALLS BLBC BLBC BRW	MMHLEN #3. PUT_NEW_REC STATUS, 32\$ EXTMSG, 31\$ 39\$	0760
		30	05	8 A	· ·	03	E1 004AD DD 004B2	31\$:	BBC PUSHL	#3, 5(R8), 33\$ R8	: 0762 : 0764
			0000000G 05	00 88		01	FB 004B4 8A 004BB		CALLS BICB2	<pre>#1. SYS\$DISCONNECT</pre>	0765
	24	8 8	20 08	A8 AC	0200 00000086 00000000G	08 8F 8F 00 58	BO 004BF C1 004C5 9F 004CF DD 004D5		MOVW ADDL3 PUSHAB PUSHL	#8, 5(R8) #512, 32(R8) #134, CNCTDESC, 36(R8) UTIL\$REPORT_IO_ERROR R8	. 0766 . 0767 . 0769
			0000000G	00 01		02 50	FB 004D7 E8 004DE	32\$:	CALLS BLBS	#2, SYS\$CONNECT STATUS, 33\$	
			E8 EC	AD AD	10 14	A6 A6 5B	04 004E1 D0 004E2 3C 004E7 D4 004EC		RET MOVL MOVZWL CI RI	16(R6), MMHRFA 20(R6), MMHRFA+4	0771 0772 0773
28	0818 18	CE AE 00	1 8 0C	AE BE 6E	20	59 08 00 AE AE	D4 004EC 28 004EE 28 004F5 2C 004FB 00500		CLRL MOVC3 MOVC3 MOVC5	RECOUNT MMHLEN, MMH, SAVEMMH #8, a12(SP), MMH #0, (SP), #0, #40, MMH+8	0774 0778 0779
			FA73	CF	20 14	01 58	9F 00502 FB 00505 DD 0050A	34\$:	PUSHAB CALLS PUSHL PUSHAB	RECLEN #1, INIT_PACK_REC R8	0780 0786
			04 0001827A	BC 13 8f	EO	AD 02 50 50	9F 00502 FB 00505 DD 0050A 9F 0050C FB 0050F E8 00513 D1 00516 13 00510		PUSHAB CALLS BLBS CMPL BEQL PUSHL	RECDESC #2, aget_routine STATUS, 35\$ STATUS, #98938 37\$ R8	
			0000000G	00		58 01	FB 00521		CALLS	R8 #1, UTIL\$REPORT_IO_ERROR	;
				02	EO	AD 12	04 00528 D1 00529 1F 0052D	35\$:	RET CMPL	RECDESC. #2	0791
		50	E4	AD	EO	AD	1F 0052D C1 0052F		BLSSU ADDL3	36\$ RECDESC, RECDESC+4, RO	0792

0A0D	8F	FE	AO	B1 00	535		CMPW	-2(RO), #2573	7793
EO	AD		04 02 5B	B1 00 12 00 c2 00 D6 00)53D)541	36\$:	BNEQ SUBL2 INCL	36\$ #2, RECDESC RECOUNT	0794 0795
FA33	7E CF B3	1 C 1 C E O	AE AD 05 50	9F 00 9F 00 7D 00 FB 00 E8 00)543)545)548)548)546)557		PUSHAB PUSHAB PUSHAB MOVQ CALLS BLBS RET	R6 MMH RECLEN RECDESC, +(SP) #5, PACK_NEW_REC STATUS, 34\$	0798
		1 C 1 C	56 AE AE 03	DD 00)558)55A)55D)560	37\$:	PUSHL PUSHAB PUSHL	RÓ MMH RECLEN	0802
FA07	ÇF		03	FB 00	2560		CALLS	#3, END_PACK	•
10	64 A6	E 9	50	E9 00)565)568		BLBC MOVL	STATUS, 40\$	0807
14	A6	E8 EC	AD AD	BO 00)56D		MOVW	MMHRFA, 16(R6) MMHRFA+4, 20(R6)	0808
16	A6	0000000G	02 00	90 00)572)576		MOVB PUSHAB	#2, 30(R6) UTIL\$REPORT_IO_ERROR	0809
00000000	00		56 02	DD 00 FB 00 E9 00 9E 00)57E		PUSHL C a lls	R6 #2, SYS\$FIND	;
22	22		<u> </u>	E9 00)585		BLBC MOVW	RO, 38\$. 0012
22	A6 5A	0818 (59 CE4A	9E 00)58C		MOVAB	#2, SYS\$FIND R0, 38\$ MMHLEN, 34(R6) SAVEMMH[SIZEOFF], SIZEOFF	: 0812 : 0813
	64		5B	00 00)592)595		MOVL	RELOUNI, (SIZEOFF)	: 0814
28	A6	0818 00000000G	CE 00	9E 00)595)59B		MOVAB PUSHAB	SAVEMMH, 40(R6)	0815
		00000000	56	DD OC)5A1		PUSHL	UTIL\$REPORT_IO_ERROR R6	; 0010
000000000	00		02	FB 00)5A3		CALLS	R6 #2, SYSSUPDATE SAVEREA 14(P4)	
10 14	A6 A6	F8 FC	AD AD	DO 00 BO 00)5AA	385:	MOVL MOVW	SAVERTA, IOTRO	: 0821 : 0822
14	AO	rt	56	DD 00)5AF)5B4		PUSHL	SAVERFA+4, 20(R6) R6	0824
0000000G	00		01	FB 00)5B6		CALLS	W1, SYS\$FIND	;
	09		50	E9 00)5BD		BLBC	STATUS, 39\$	0824
0000000G	00		56 01	DD 00 FB 00)5C0)5C2		PUSHL CALLS	R6 #1, SYS\$DELETE	0826
	00 50		ŎÌ	DO 00)5 (9	39 \$: 40 \$:	MOVL RET	#1, RO	0829 0830
				57 00	,,,,,,	- J	***	•	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

; Routine Size: 1485 bytes. Routine Base: \$CODE\$ + OODF

```
ROUTINE SEND_MSG (CNCTDESC, DEVDIR_DESC, UIC, SND_FAB) =
                0832
0833
696
                        1 1
697
                                     This routine actually sends the message
                        1 !--
                 0834
698
                        Ż BEGIN
                 0835
699
                0836
700
701
                 0837
                                     CNCTDESC : REF $BBLOCK.
702
703
                 0838
                                     DEVDIR_DESC : REF $BBLOCK,
                 0839
                                     SND_FAB : REF $BBLOCK:
704
                 0840
705
                 0841
                          BIND
706
707
                                GET_RAB = CNCTDESC[CNCT_T_RAB] : $BBLOCK;
708
                 0844
                          LOCAL
                                    FF_FLAG,
STATUS,
SAVE_STS,
SAVE_STV,
SND_RAB : $RAB_DECL,
709
                 0845
                                                                                                 ! Form-feed flag
                0846
710
                                                                                                 ! Routine status
711
                 0847
712
                 0848
                 0849
                 0850
                                     SND NAM : $NAM DECL
714
                                    SND_NAM : DNAM DECL,
SND_XABPRO : $XABPRO DECL,
SND_ESNAM_BUF : $BBLOCK[NAMSC_MAXRSS],
DEF_BUFF: VECTOR[NAMSC_MAXRSS,BYTE],
REC_BUFF: VECTOR[MAIL$K_INBUFFSZ,BYTE],
REC_SIZ,
DESC: $BBLOCK[8];
715
                 0851
                0852
0853
716
717
                                                                                                    Default name buffer
                 0854
718
                                                                                                    Record buffer
719
                 0855
                                                                                                    Record size
720
                 0856
                                                                                                 ! String descriptor
721
                 0857
722
                 0858
                          INIT SDESC(DESC):
                0859
724
725
                0860
                            Create and set the file name and file owner
                0861
726
727
                0862
0863
                          CH$COPY(.DEVDIR_DESC[DSC$W_LENGTH]
                                                                                                 !Concatenate dev.dir
                                    .DEVDIR DESCEDSCSA POINTER), XCHARCOUNT (DEFFILENAM, DEFFILETYP),
728
                0864
                                                                                                 ! and filename & type
729
730
                 0865
                                     UPLIT BYTE (DEFFILENAM, DEFFILETYP),
                0866
                                     O, NAMSC_MAXRSS, DEF_BUFF);
731
732
733
                0867
                0868
                          DESC[DSC$W_LENGTH] = .DEVDIR_DESC[DSC$W_LENGTH] +
                0869
                                                                   XCHARCOUNT (DEFFILENAM, DEFFILETYP);
734
735
                0870
                          DESC[DSC$A_POINTER] = DEF_BUFF;
                0871
736
737
                0872
0873
                          ! First try to open the file as an ISAM file
738
739
                          SNAM_INIT(NAM=SND_NAM,
ESS=NAMSC_MAXRSS
              P 0874
              P 0875
                                    ESA=SND_ESNAM_BUF,
RSS=NAMSC_MAXRSS,
740
                0876
741
                0877
742
743
                 0878
                                     RSA=SND_E5NAM_BUF);
                 0879
744
                 0880
                          STATUS = MAILSCREATE_ISAM(.SND_FAB,SND_RAB,SND_NAM,DESC,.UIC,
745
                 0881
                                                         (MCR_M_CIF OR MCR_M_TXEC));
                0882
0883
746
747
                          IF (.STATUS
748
                 0884
                                     AND (.SND_FAB[FAB$B_ORG] EQL FAB$(_IDX))
749
                 0885
                          THEN BEGIN
750
              P 0886
                                IF_ERR(MAIL$WRITE_MSG(GET_RECORD,.CNCTDESC,MAIL$SD_NEWMAIL,
              P 0887
                                                         (MCR_M_EXEC OR MCR_M_SND_NEWMSG OR MCR_M_CNCT_RAB),
751
```

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```
P 0888
753
7556
7556
7567
7561
763
765
                                                                              SND_RAB);,
                   0889
                                                      RETURN .STATUS):
                   0890
                                    END
                   0891
                              ELSE BEGIN
                                    SAVE_STS = .SND_FAB[FAB$L_STS];
SAVE_STV = .SND_FAB[FAB$L_STV];
IF .SND_FAB[FAB$W_IFI] NEG_0
                   0892
0893
                   0894
                                          THEN SCLOSE (FAB= SND FAB);
                   0895
                                                                                                     !Close in case
                                     SND_FAB[FAB$L_STS] = .SAVE_STS;
SND_FAB[FAB$L_STV] = .SAVE_STV;
                   0896
                   0897
                   0898
                   0899
                                       If locked ISAM file, signal error and return
                   0900
                   0901
                                     IF ((.STATUS EQL RMS$_FLK)
                   0902
                                    AND (.SND_FAB[FAB$B_ORG] EQL FAB$C_IDX))
THEN RETURN UTIL$REPORT_IO_ERROR(.SND_FAB);
766
767
768
                   0904
769
                   0905
                                     IF .STATUS NEQ RMS$ PRV
770
                   0906
                                     THEN BEGIN
                                          SND_FAB[FAB$B_SHR] = 0;

SND_FAB[FAB$B_ORG] = FAB$C_SEQ;

SND_FAB[FAB$B_FAC] = FAB$M_PUT OR FAB$M_TRN;

SND_FAB[FAB$B_RAT] = FAB$M_CR;

SND_FAB[FAB$B_RFM] = FAB$C_VAR;

SND_FAB[FAB$L_XAB] = SND_XABPRO;

$XABPRO_INIT(XAB=SND_XABPRO,
771
                   0907
772
773
                   0908
                   0909
774
                   0910
775
                   0911
77£
777
                0912
P 0913
778
                   0914
                                                                 NXT=0):
                                          SND_XABPRO[XAB$L_UIC] = .UIC;
SND_XABPRO[XAB$W_PRO] = SND_PRO;
779
                   0915
780
                   0916
781
                   0917
                   0918
782
                                             Open/create the addressee's mail file
783
                   0919
                   0920
784
                                          STATUS = $CREATE(FAB = .SND_FAB);
785
                   0921
                                           IF .STATUS EQL RMSS_FLK
                                                                                                                ! If file locked,
                   0922
0923
786
                                          THEN BEGIN
787
                                                SND_FAB[FAB$V_CIF] = 0;
STATUS = $CREATE(FAB = .SND_FAB);
                                                                                                                ! unconditionaly create
                   0924
0925
788
789
                                                END:
790
                   0926
                   0927
791
                                          IF NOT .SND_FAB[$FAB_DEV(DIR)]
OR .SND_FAB[$FAB_DEV(FOR)]
792
                   0928
793
                   0929
                                          THEN BEGIN
                                               $CLOSE(FAB=.SND_FAB);
STATUS = SS$_IVDEVNAM;
SND_FAB[FAB$[_STS] = SS$_IVDEVNAM;
SND_FAB[FAB$L_STV] = 0;
794
                   0930
795
                   0931
                   0932
0933
796
797
798
                   0934
                                                END:
799
                   0935
                                           IF .SND_XABPRO[XAB$L_UIC] NEQ .UIC
                                                                                                                 ! Make sure file owner
800
                   0936
                                          THEN STATUS = RMS$_PRV;
                                                                                                                 ! is really correct
801
                   0937
                                    END:
IF NOT .STATUS
                  0938
802
                                                                                                                 ! Check OPEN/CREATE
803
                   0939
                                          THEN RETURN UTIL $REPORT_IO_ERROR(.SND_FAB);
804
                   0940
805
                P 0941
                                    SRAB_INIT(RAB=SND RAB.
               P 0942
P 0943
806
                                          FAB=.SND_FAB,
807
                                          CTX=MAILS_OPENOUT,
                   0944
808
                                          ROP=EOF):
```

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16-Sep-1984 01:17:01 14-Sep-1984 12:42:31

```
DISKSVMSMASTER: [MAIL.SRC]SENDMSG.B32:1 (10)
              0945
              0946
810
                           STATUS = $CONNECT(RAB = SND_RAB, ERR=UTIL$REPORT_IO_ERROR);
811
              0947
                           IF NOT .STATUS
812
813
                           THEN RETURN .STATUS;
SND_RABERAB$L_CTX] = MAIL$_WRITEERR;
              0948
              0949
              0950
814
815
              0951
                            Make sure that the input RAB is in record rather than block mode
              0952
816
817
                           IF .GET_RAB[RAB$V_BIO]
818
              0954
                           THEN BEGIN
                              SDISCONNECT(RAB=GET_RAB);
GET_RAB[RAB$V_BIO] = false;
GET_RAB[RAB$W_USZ] = MAIL$K_INBUFFSZ;
GET_RAB[RAB$W_USZ] = CNCTDESC[CNCT_T_BUFFER];
$CONNECT(RAB=GET_RAB,ERR=UTIL$REPORT_IO_ERROR);
819
              0955
820
              0956
821
              0957
822
823
              0958
              0959
824
825
              0960
                               END:
              0961
             0962
826
                             Create the message delimiter
827
                           828
            P 0964
829
830
              0965
              0966
831
              0967
                            Create the message header
832
833
              0968
                          DESC[DS($W_LENGTH] = MAIL$K_INBUFFSZ;
DESC[DS($A_POINTER] = REC_BUFF;
$FAO(DESCRIPTOR('From:!_!AS !17%D *'), ! format From: Line
              0969
834
835
             0970
            P 0971
                               REC_SIZ,
DESC,
            P 0972
836
            P 0973
837
838
           P 0974
                               CNCTDESC[CNCT_Q_FROMDESC],
             0975
839
           P 0976
                          840
              0977
841
842
843
              0978
           P 0979
                          $FAO(MAIL$GETMSG(MAIL$_MAIL10),
                                                                       !Put To: Line
           P 0980
                               REC_SIZ,
DESC.
844
845
           P 0981
846
              0982
                          CNCTDESC[CNCT_Q_TODESC]);
IF_ERR(PUT_SEND_MSG(.REC_SIZ,REC_BUFF,SND_RAB);, ! Put TO: line
847
           P 0983
848
              0984
                                       RETURN .STATUS);
849
              0985
850
              0986
                           If .(CNCTDESC[CNCT_Q_SUBJDESC])<0,16,0> NEQ 0 ! If subject specified
              0987
851
                           THEN BEGIN
852
853
           P 0988
                               $fAO(MAIL$GETMSG(MAIL$_MAIL20), ! Format subject line
           P 0989
                                       REC_SIZ,
DESC,
           P 0990
854
                              855
              0991
           P 0992
856
857
              0993
858
              0994
                               END:
859
              0995
                          P 0996
860
                                                                        ! Put a blank line
861
              0997
862
              0998
863
              0999
                            Copy the message text to the file
              1000
864
865
              1001
                           ff_fLAG = 0:
```

```
M.
```

```
16-Sep-1984 01:17:01
MAILSSEND_MSG
                 VAX/VMS PERSONAL MAIL UTILITY
                                                                                               VAX-11 Bliss-32 V4.0-742
                                                                                                                                      Page 29
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                                                                     14-Sep-1984 12:42:31
                                                                                               DISK$VMSMASTER:[MAIL.SRC]SENDMSG.B32:1 (10)
                 1002
                              WHILE T
  866
867
                              DO BEGIN
                 1004
                                  868
  869
870
871
872
873
874
               P
                 1005
                1006
               Ρ
                                               THEN RETURN .STATUS:
                                           RETURN TRUE):
                 1008
                                  IF .FF_FLAG
                 1009
                                  THEN BEGIN
                 1010
  875
876
877
                 1011
                                        If this line is 'From', then insert a blank line in between
                1012
1013
1014
1015
                                      878
   879
                 1016
   880
   881
                                      FF_FLAG = 0;
                                                                              !No longer following FF
  882
883
                                      END
                 1018
1019
1020
1021
1022
1023
1024
1025
1026
1027
                                  ELSE IF .GET_RAB[RAB$W_RSZ] EQL 1
AND .(.GET_RAB[RAB$L_RBF])<0,8> EQL FF
THEN FF_FLAG = 1;
   884
   885
   886
   887
                                    If record is terminated with a CR/LF, strip it. This type of
   888
                                    record is produced by DEC Standard Runoff.
   889
   890
                                  IF .GET RAB[RAB$W RSZ] GEQU 2
   891
                                  AND . (.GET_RAB[RAB$L_RBF] + .GET_RAB[RAB$W_RSZ] - 2)<0,16> EQLU (CR OR LF^8)
                 1028
1029
   892
   893
                                      THEN GET_RAB[RAB$W_RSZ] = .GET_RAB[RAB$W_RSZ] - 2;
                 1030
  894
                1031
1032
1033
  895
                                  896
   897
                                  END:
                 1034
  898
                              END:
                                                                              !Of old format mail file
  899
                       Ž RETUI
1 END;
                 1036
1037
  900
                         RETURN TRUE
  901
                                               40
                                                                 006AC P.AAA:
                                                                                .ASCII
                                                                                        \MAIL\
                                                                                .ASCII
                                                   41
                                                        4D
                                                                 006B0
                                                                                        \.MAI\
                                                        00
                                               00
                                                   00
                                                            0C
                                                                006B4 P.AAB:
                                                                                .ASCII
                                                                                        <12><0><0><0>
                                                     72 46
25 37
00000014
31 21 20 20 20 53 41 21 5F
                                      21
                                           3A
                                               6D
                                                   6F
                                                                 006B8 P.AAD:
                                                                                .ASCII
                                                                                        \From:!_!AS !17%D *\
                                               20
                                                                 006C7
                                                                006CC P.AAC:
                                                                                .LONG
                                                      00000000
                                                                006D0
                                                                                .ADDRESS P.AAD
                                                           OFFC 00000 SEND_MSG:
                                                                                        Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
-1288(SP), SP
CNCTDESC, R8
646(R8), R7
                                                                                . WORD
                                                                                                                                          0831
                                                 FAF8
                                                                00002
                                                                                MOVAB
                                          58
57
                                                                00007
                                                   04
                                                                                                                                          0842
                                                         AC
                                                             D0
                                                                                MOVL
                                                 0286
                                                         68
                                                             9Ě
                                                                0000B
                                                                                MOVAB
                                                             ŹČ
                                                                                                                                          0858
                                                                00010
                                                         AE
                                                                                CLRQ
                                                                                        DESC
                                                    08
                                                             DÓ
                                                                00013
                                                                                        DEVDIR DESC, R6 (R6), R11
                                          56
                                                                                                                                          0862
                                                                                MOVL
                                                         AC
                                          ŠB.
                                                             30 00017
                                                                                MOVŽWL
                                                         66
```

MAIL\$SEND	MSG	VAX/VMS	PERSO	DNAL MAIL (JTIL	_ITY)84 01:17)84 12:42	:01 VAX-11 Bliss-32 V4.0-742 2:31 DISK\$VMSMASTER:[MAIL.SRC]SENDMSG.B32:1 (1	33
	5A		00	04	5A 59 B6	020C	8F CE 5B 69	9A 9E 2C	0001E 0001E 00029 00029 0002F 00038 00038 00048		MOVZBL MOVAB MOVC5	#255, R10 DEF_BUFF, R9 R11, a4(R6), #0, R10, (R9)	
	5A		00	A 2	59 5A AF		0D 5B 5B 08 69	18 00 02 20	0002A 0002C 0002F 00032		BGEQ ADDL2 SUBL2 MOVC5	1\$ R11, R9 R11, R10 #8, P.AAA, #0, R10, (R9)	
0060	8 F	04	AE 00	08	66 AE 6E	0200	69 08 CE 00 CD 8F 01	A1 9E 2C	00038 00039 0003E 00044	15:	ADDW3 MOVAB MOVC5	#8, (R6), DESC DEF_BUFF, DESC+4 #0, (SP), #0, #96, \$RMS_PTR .08	68 370 378
				FF5C FF5E FF60 FF66 FF68	CD CD CD CD 7E	FF5C 6002 FE04 FE04 0204 0C 0C FF5C	8F 01 01 02 8F AE CD	8898893D9F	0004B 0004E 00055 0005A 00061 0006D 00075 0007F 00085		MOVW MNEGB MOVAB MOVAB MOVZWL PUSHL PUSHAB PUSHAB PUSHAB MOVL PUSHL CALLS	UIC : 08 DESC :	381 380
			C)0000000G	56 00 59 26 20	BC 10	AD AC 56 56 59 A6 20	DO E9 91 12	0008C 0008F 00092 00096		BLB(29(R6), #32 3\$ 08	383 384
				F95A	7E CF 03	80 0241 000000006 F92F	AD 8F 00 58 CF 05 50 027C	9F DD 9F FB E9	00098 0009B 000A0 000A6 000A6 000AC	26.	BNEQ PUSHAB MOVZWL PUSHAB PUSHAB CALLS BLBC BRW RET MOVL	SND_RAB #577, -(SP) MAIL\$SD_NEWMAIL R8 GET_RECORD #5, MAIL\$WRITE_MSG STATUS, 2\$ 26\$	389
					53 52	08 00 02	A6 A6 09	DO DO B5 13	000B8 000BC 000C0 000C3	35:	MOVL MOVL TSTW BEQL PUSHL CALLS MOVL	12(R6), SAVE_STV : 08 2(R6) : 08	192 193 194
				000000006 08 00 0001828A	00 A6 A6 8F		56 01 53 52 59 09	DD FB DO DO D1	000B7 000B8 000BC 000C3 000C7 000CE 000D2 000D6	45.	PUSHL CALLS MOVL MOVL CMPL BNEQ CMPB BNEQ	#1, SYS\$CLOSE ;	95 96 97 01
			C	0001829A	20 8f	10	A /		000DF 000E3 000E5 000EF 000F1 000F4 000F8	5 \$:	HRU	29(R6), #32 5\$ 11\$ STATUS, #98970	
				16 1E	A6 A6	1D 0202	A6 11 8F	94 80 80	000F1 000F4 000F8		CMPL BEQL CLRB MOVW MOVW	29(R6) #17, 22(R6) #514, 30(R6)	08 09 10

MAIL\$SEND_MSG V04-000	VAX/VMS PERSONAL MAIL UT	ILITY	K 7 16-Sep-1984 0::17 14-Sep-1984 12:42	:01 VAX-11 Bliss-32 V4.0-742 Page :31 DISK\$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1 (1	31 0)
0058 8F	00 24 6	E 00	9E 000FE MOVAB 2C 00104 MOVC5	SND_XABPRO, 36(R6) #0, (SP), #0, #88, \$RMS_PTR : 09	12
	FF04 C FF10 C FF0C C	D OC AC D 34 56	2C 00104 0010B B0 0010E D0 00115 AE 0011B DD 00120 FB 00122 D1 0012C CMPL 12 00133 BNEQ BNEQ BNEQ BNEQ BNEQ BNEQ BNEQ BNEQ	#22547, \$RMS PTR UIC, SND XABPRO+12 09 #52, SND XABPRO+8 09 R6 09 #1, SYS\$CREATE	
	00000000G 0 5 0001828A 8	9 50 F 59	DO 00122 CALLS DO 00129 MOVL D1 0012C CMPL 12 00133 BNEQ	RU, STATUS STATUS, #98954 : 09	21
	07 A 00000000G 0	6 02 56 0 01	8A 00135 BICB2 DD 00139 PUSHL FB 0013B CALLS	6\$ #2, 7(R6) R6 #1, SYS\$CREATE	23 24
	00000000G 0 5 04 40 A 1		DÓ 00142 MOVL E1 00145 6\$: BBC E9 0014A BLBC	RO, STATUS #3, 64(R6), 7\$: 09 67(R6), 8\$: 09	28
	00000000G 0 5 08 A	0 01 9 0144 8F 6 0144 8F	E1 00145 6\$: BBC E9 0014A BLBC DD 0014E 7\$: PUSHL FB 00150 CALLS 3C 00157 MOVZWL 3C 0015C MOVZWL	#1, SYS\$CLOSE #324, STATUS : 09 #324, 8(R6) : 09	31 32
	0C A	0C A6 C FF10 CD 07 9 0001829A 8F	D4 00162 CLRL D1 00165 8\$: CMPL 13 0016B 9\$: BEQL D0 0016D MOVL	12(R6) SND_XABPRO+12, UIC 10\$ #98970, STATUS	35
	00000000 O	A 59 56	DO 0016D MOVL E8 00174 10\$: BLBS DD 00177 11\$: PUSHL FB 00179 CALLS	STATUS, 12\$ R6 #1, UTIL\$REPORT_IO_ERROR	38
0044 8F	00 6	BC AD	04 00180 RET 2C 00181 12\$: MOVC5 00188 B0 0018A MOVW 3C 00190 MOVZWL	#0, (SP), #0, #68, \$RMS_PTR 09 #17409 \$RMS_PTR	44
	CO A D4 A F8 A	007E10A2 8F 0 56 00000000G 00	DO 00196 MOVL DO 0019E MOVL 9F 001A2 PUSHAB 9F 001A8 PUSHAB	#17409, \$RMS_PTR #256, \$RMS_PTR+4 #8261794, \$RMS_PTR+24 R6, \$RMS_PTR+60 UTIL\$REPORT_IO_ERROR 09: SND_RAB #2, SYS\$CONNECT	46
	00000000G 00 50 00 50	9 50 4 59	DO 00188 MOVI	#2, SYSSCONNECT R0, STATUS STATUS, 13\$ STATUS, R0 094	47 48
	28 D4 A 05 A	57	DO OO1RC 13€+ MOVI	#8261840, SND_RAB+24 #3, 5(R7), 14\$ R7	53
	00000000G 00 05 A 20 A 24 A	0 01 7 08 7 0200 8f	8A 00102 BICB2 B0 00106 MOVW 9E 0010C MOVAB	#1, SYS\$DISCONNECT #8, 5(R7) #512, 32(R7) 134(R8), 36(R7) UTIL\$REPORT_IO_ERROR R7	56 57
	0000000G 0	0 02 BC AD FDE8 CF	9F 001E2 PUSHAB DD 001E8 PUSHL FB 001EA CALLS 9F 001F1 14\$: PUSHAB 9F 001F4 PUSHAB	R7 #2, SYS\$CONNECT SND_RAB P.AAB	65
	F72D C	01 F 03 F 50	9F 001F4 PUSHAB DD 001F8 PUSHL FB 001FA CALLS E9 001FF BLBC	#1 #3, PUT_SEND_MSG STATUS, 15\$	

					•	T SEP 1	704 16:46	21 MISKANSHWITEW.FUMTE.SWCJSEMANOG.DJC	1 (10)
04 08	AE AE	0200 00	8F AE 7E A8	50 9E 04	\$0500 80500 40500		MOVW MOVAB CLRL	#512, DESC REC_BUFF, DESC+4 -(SP)	: 0969 : 0970 : 0975
		08	À8	9 F	0020F 00212 00215 00218 0021C		PUSHAB	8(R8)	;
		0C 0C	AE AE	9F 9F	00212		PUSHAB PUSHAB	DESC REC S17	•
00000000	00	FDĎČ	CF	9F	00218		PUSHAB	REC_SIZ P.AAC	;
0000000G	00	ВС	05 AD	FB 9F	00210		CALLS PUSHAB	#5.75YS\$FAO SND_RAB REC_BUFF	0077
		10	ĀĒ	9F	00226		PUSHAB	RECTBUFF	0977
F6FB	CE	08	AE 03 50 A8	DD	00229		PUSHL	REC_SIZ #3, PUT_SEND_MSG	
rorb	CF 72		50	FB E9	0022C 00231		CALLS BLBC	#3, PUI_SEND_MSG STATUS, 17\$	
	_	10	A8	9F	00234		PUSHAB	16(R8)	: 0982
		08 08	AE AF	9F 9F	00237 0023A 0023D		PUSHAB PUSHAB	DESC PEC S17	
		007EDE10	AE 8F 01 50	DD	00230		PUSHL	REC_SIZ #8314384	
0000000G	00		01	FB	00245		PUSHL CALLS	#1, MAIL\$GETMSG	
0000000G	00		04	DD FB	0024A 0024C		PUSHL Calls	RO #4, SYS\$FAO	
		ВĊ	AD	9F	00253		PUSHAB	SND_RAB	0984
		10 08	AE	9F DD	00256 00259		PUSHAB	RECTBUFF	
F6CB	CF 42	08	AE 03 50	fB	00250		PUSHL CALLS	REC_SIZ #3, PUT_SEND_MSG	
	42	4.0	50	E9	00261	15\$:	BLBC	STATUS, 1/5	
		18	A8 30	B5 13	00264		TSTW Beal	24(R8) 16 \$: 0986
		18	A8 30 A8	9F	00267 00269 0026C 0026F 00272		PUSHAB	24(R8)	0991
		08	AE	9F	00260		PUSHAB	DESC	
		08 007EDE18	AÉ 8F	9F DD	00261		PUSHAB PUSHL	ŘEČ S17 #8374392	
0000000G	00	00120210	01 50	1 B	00278		CALLS	#1, MAILSGETMSG	
00000000	00		50	DD	0027F		PUSHL	RO	•
00000000	00	BC	04 AD	FB 9F	00281 00288		CALLS PUSHAB	#4, SYS\$FAO SND_RAB	0993
		10	AE	9F	0028B		PUSHAB	REC_BUFF	
1043	CF	08	AE AE 03	DD	0028E		PUSHL	REC_SIZ	
F 696	54		50	fB F9	00291		CALLS BLBC	#3, PUT_SEND_MSG STATUS, 20\$	
	•	BC 10	ÁĎ	9f	00299	16\$:	BLBC PUSHAB	CNN DAR	0997
		10	AE 70	9F	00290		PUSHAR	REC BUFF	
F686	CF		AE 703 50 50 50 57	fB	00296 00299 00296 00296 00241 00246		CLRL CALLS BLBC CLRL PUSHAB	REC_BUFF -(SP) #3. PUT_SEND_MSG STATUS, 20\$ FF_FLAG	
	CF 44		ŞÕ	E9	002A6	17\$:	BLBC	STATUS, 20\$	
		G000000G)4 00	04 9f	002A9	18\$:	CLRL	FF_FLAG UTIL\$REPORT_IO_ERROR	1887
		00000000	57	DD	002B1	100.	PUSHL	R7	1007
0000000G	ΟO		δŠ	FB E8	002B1 002B3		CALLS	#2, SYS\$GET	
0001827A	OA 8F		20 50	D1	002BV		BLBS CMPL	STATUS, 19\$ STATUS, #98938	
000102171	٠.		02 50 50 60	13	00204		BEQL	26 \$	
	2 4			04	002BA 002BD 002C4 002C6 002C7	104.	RET		1000
	52	22	34 A7	E 9 9E	002(4	173:	BLBC MOVAB	FF_FLAG, 22\$ 34(R7), R2	1008
	2A 52 53 04		54 A7 62 53	9E 3C	002CA		MOVZWL	(R2), R3	
	04		53 1A	B1	002D1 002D4		CMPW	(ŘŽ), Ř3 Ř3, Ř4 21 \$	•
			1.7	סו	00204		BLEQU	61 ₱	·

MAIL\$SEND_MSG V04-000	VAX/VMS PERSONAL MAIL	UTILITY	M 7 16-Sep-1984 01:17:01	, 33 (10)
	6D6F7246	8F	28 B7 D1 002D6 CMPL 340(R7), #1836020294 : 10 12 002DE BNEQ 21\$:	1014
			BC AD 9F 002E0 PUSHAB SND RAB 28 A7 DD 002E3 PUSHL 40(R7) : 7E D4 002E6 CLRL -(SP)	1016
	F63F	CF 46	SO ED DOJEN JOE, PIDC CTATIC JOE	
			50 E9 002ED 20\$: BLBC STATUS, 27\$ 54 D4 002F0 21\$: CLRL FF FLAG 15 11 002F2 BRB 23\$	1017 1008
		52 53 01	22 A7 9E 002F4 22\$: MOVAB 34(R7), R2 62 3C 002F8 MOVZWL (R2), R3 53 B1 002FB CMPW R3, #1	1008 1019
		OC	09 12 002FE BNEQ 23\$ 28 B7 91 00300 CMPB 340(R7), #12 03 12 00304 BNEQ 23\$	1020
		54 02	53 B1 00309 23\$: CMPW R3, #2" 10 1F 0030C BLSSU 24\$	1021 1026
	50 0A0D	53 8F	28 Å7 C1 0030E ADDL3 40(R7), R3, R0 FE A0 B1 00313 CMPW -2(R0), #2573 03 12 00319 BNEQ 24\$	1027 1028
		62	02 A2 0031B	1029 1032
	F600	7E CF 03	50 E9 0032C BLBC STATUS, 25\$;	
		50	FF79 31 0032F BRW 18\$ 04 00332 25\$: RET 01 D0 00333 26\$: MOVL #1, R0 04 00336 27\$: RET	1036 1037

; Routine Size: 823 bytes, Routine Base: \$CODE\$ + 06D4

```
16-Sep-1984 01:17:01
MAIL$SEND_MSG
                               VAX/VMS PERSONAL MAIL UTILITY
                                                                                                                                                                                VAX-11 Bliss-32 V4.0-742 Page 34 DISK$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1 (11)
V04-000
                                                                                                                                 14-Sep-1984 12:42:31
     903
904
905
                                            1 GLOBAL ROUTINE MAIL$SEND_MSG(CNCTDESC, DEVDIR_DESC, UIC, USERDESC) =
                                1039
                                1040
                                                ! FUNCTIONAL DESCRIPTION:
     906
907
                                1041
                                                                This routine is called to send a message to another user. It opens the user's new mail message file and copies the new message to the file. Since there is no file sharing, if the new mail message file cannot be opened because it is already in use, another file will be created. The files will all be concatenated into one file when read.
                                1042
      908
      909
                                1044
                                1045
      910
      911
     912
                                1047
                                                    INPUTS:
     914
                                1049
1051
1053
1053
1055
1057
1057
1066
1066
1066
1066
1068
                                                                CNCTDESC = Address of CNCT block for message
     916
917
                                                                DEVDIR_DESC = Address of descriptor of addressee's mail directory
                                                                UIC = DIC of addressee.
      918
                                                                USERDESC = Address of descriptor of user's name
      919
     920
921
922
923
924
925
926
927
928
929
                                                    OUTPUTS:
                                                                All failures are signalled as well as returned.
                                           BEGIN

MAP

CNCTDES

LOCAL

SND FAE

STATUS:

STATUS:

STATUS:

STATUS:

STATUS:

STATUS:

STATUS:

IF .SND FAE

THEN SC

MAIL SDOWN F

Increment

Increment

THEN MA

RETURN .STATUS

RETURN .STATUS

RETURN .STATUS
                                                        CNCTDESC : REF $BBLOCK;
      930
                                                        SND_FAB : $FAB_DECL,
     931
932
933
934
935
                                                        STATUS:
                                              $REWIND(RAB=CNCTDESC[CNCT_T_RAB]);
MAIL$UP_PRIV(1^$BITPOSITION(PRV$V_SYSPRV),0);
STATUS = SEND_MSG(.CNCTDESC,.DEVDIR_DESC,.UIC,SND_FAB);
SND_FAB[FAB$L_XAB] = 0;
SND_FAB[FAB$L_CTX] = MAIL$_CLOSEOUT;
IF .SND_FAB[FAB$W_!FI] NEQ 0
    THEN $(LOSE(FAB=SND_FAB,ERR=UTIL$REPORT_IO_ERROR);
MAIL$DOWN_PRIV();
                               1069
1070
1071
1072
1073
1074
      936
      937
      938
      939
      940
                                1076
      941
     942
943
                                1077
                                                   Increment new mail count
                                1078
      944
                                1079
      945
                                1080
                                                        THEN MAIL$INCR_NEWMAIL(.USERDESC);
     946
947
                                1081
                               1082
                                               RETURN .STATUS
     948
                                                                                                                                                     .EXTRN SYSSREWIND
```

MAIL\$SEND_MSG, Save R2 -80(SP), SP #646, CNCTDESC, -(SP) #1, SYS\$REWIND -(SP) 0004 00000 1038 .ENTRY 9E 00002 C1 00006 5E AC 00000286 MOVAB ADDL3 8F 01 7E 8F 1068 00000000G FB 0000F CALLS 00016 **D4** 1069 CLRL 10000000 00018 DD #268435456 PUSHL

V0

MAIL\$SEND_MSG VO4-000	VAX/VMS PERSONAL MAIL	UTILITY		B 8 16-Sep-1 14-Sep-1	984 01:17 984 12:42	:01 VAX-11 Bliss-32 V4.0-742 PARTICISENT PARTICISES PARTICIPATION PARTICIPATI	age 35 1 (11)
	00000000G	00	02 5E AC	FB 0001E	CALLS PUSHL	#2, MAIL\$UP_PRIV SP	: 1070
		7E 08 04	AC AC	FB 0001E DD 00025 7D 00027 DD 0002B FB 0002E D0 00033	MOVQ	DEVDIR DESC, -(SP) CNCTDESC	. 1070
	F C 96	CF 52	04	FB 0002E	PUSHL CALLS MOVL	#4, SEND MSG	
	18	24 AE 007E1058	50 AE 8F	04 00036 00 00039 B5 00041	CLRL MOVL	#4, SEND MSG RO, STATUS SND FAB+36 #8261720, SND FAB+24	: 1071 : 1072
		02	ĂE 10	B5 00041 13 00044	TSTW BEQL	SND_FAB+2	1073
		00000000G	00	9F 00046 9F 0004C	PUSHAB PUSHAB	UTIL\$REPORT_IO_ERROR SND_FAB	1074
	0000000G 0000000G	00	95 05	FB 0004F FB 00056 1\$:	CALLS	#2, SYS\$CLOSE #0, MAIL\$DOWN_PRIV	1075
	00000000	ŎĂ 10	00 52 AC	E9 0005D DD 00060	BLBC PUSHL	STÁTUS, 2\$ USERDESC	1079
	00000000G	00 50	01	FB 00063 D0 0006A 2\$:	CALLS	#1, MAILSINCR_NEWMAIL STATUS, RO	1082
		70	76	04 0006D	RET	JINIUS, NU	; 1083

; Routine Size: 110 bytes. Routine Base: \$CODE\$ + 0AOB

```
V0
```

```
16-Sep-1984 01:17:01
14-Sep-1984 12:42:31
MAIL$SEND_MSG
                         VAX/VMS PERSONAL MAIL UTILITY
                                                                                                                                               VAX-11 Bliss-32 V4.0-742 Page 36 DISK$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1 (12)
V04-000
    950
951
952
953
954
955
                         1084
1085
                                 1 ROUTINE SEND_ERROR (SIGARG, MECHARG, ENBL) =
                          1086
1087
                                       ! FUNCTIONAL DESCRIPTION:
                          1088
                                                    Errors signalled by MAIL$SEND_ADDR and routines it calls come here
                          1089
    956
957
                          1090
                         1091
1092
1093
                                      BEGIN
    958
                                      MAP
    959
                                             SIGARG : REF $BBLOCK,
                          1094
    960
                                             MECHARG : REF $BBLOCK,
                          1095
    961
                                             ENBL : REF VECTOR[,LONG];
    962
963
                         1096
                                  ADRDESC = .ENBL[1] : REF $BBLOCK;

LOCAL
USERDESC : VECTOR[2,LONG],
LNK : REF $BBLOCK,
DESC : VECTOR[2,LONG];

IF NOT .MAIL$GL_FLAGS[MAIF_V_NETJOB]
AND .ADRDESC NEQ O
THEN BEGIN
USERDESC[0] = .ADRDESC[ADR_B NAML
USERDESC[1] = ADRDESC[ADR_T NAME]
IF (LNK = .ADRDESC[ADR_L_[LNK]) N
THEN BEGIN
                          1098
    964
    965
                          1099
    966
967
                         1100
                         1101
                         1102
    968
    969
970
                         1104
    971
                         1105
    972
973
                         1106
                                             USERDESC[0] = .ADRDESC[ADR_B_NAMLNG];
USERDESC[1] = ADRDESC[ADR_T_NAME];
IF (LNK = .ADRDESC[ADR_L_[LNK]) NEQ 0
    974
                         1108
    975
                         1109
    976
977
                         1110
                         1111
                                             THEN BEGIN
                         1112
                                                   DESC[0] = .LNK[LNK_B_NODLEN];
DESC[1] = LNK[LNK_T_NODE];
    978
    979
                         1114
    980
                                                    SIGNAL (MAILS_SENDERRAT, 2, USERDESC, DESC);
    981
                                   RETUI
                         1116
    982
                                             ELSE SIGNAL(MAIL$_SENDERR,1,USERDESC);
    983
                                             END:
    984
                         1118
                                      RETURN SS$_RESIGNAL
    985
                         1119
```

			0	004	00000	SEND_ERROR:		
	52	0000000G	00	9E	00002	WORD MOVAB	Save R2 LIB\$SIGNAL, R2	: 1084
	5Ē		10	(5	00009	SUBL 2	#16, SP	
43 00000000	50	00	AC	ĎΟ	00000	MOVL	ENBL, RO	: 1098
42 00000000G	00	0/	01	ΕÕ	00010	BBS	#1, MAIL\$GL_FLAGS, 2\$: 1105
		04	B0 30	D5	00018 0001B	ŤŠŤL BEQL	a4(R0) 2\$; 1106
	50	04	BÖ	δÓ	0001D	MOVL	24(RO), RO	: 1108
08 00	AE	1D	ÃŎ	9Ă	00021	MOVŽBL	29(RO), USERDESC	:
00	ΑĘ	1E	AQ	9Ę	00026	MOVAB	30(RO), USERDESC+4	: 1109
	50	08	AO	ρQ	0005B	MOVL	8(RO), LNK	; 1110
	6E	20	1B	9A	0002F 00031	BEQL Movzbl	13 47(1NK) DECC	1112
04	AF	2F 30	A0 A0	9Ê	00035	MOVAB	47(LNK), DESC 48(RO), DESC+4	1113
•	7.6	70	,,,	, _	00000	110170	TOTHON, DEGL. T	. 1113

MAILSSEND_MSG VO4-000	VAX/VMS PERSONAL MAIL UTILITY	D 8 16-Sep-1984 01:17:01 VA(+11 Bliss-32 V4.0-742 Pa 14-Sep-1984 12:42:31 DICK\$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1	age 37
	007E810A 62 007E810A 08 007E803A 62 0918	SE DD 0003A PUSHL SP AE 9F 0003C PUSHAB USERDESC 02 DD 0003F PUSHL #2 8F DD 00041 PUSHL #8290570 04 FB 00047 CALLS #4, LIB\$SIGNAL 0E 11 0004A BRB 2\$ AE 9F 0004C 1\$: PUSHAB USERDESC 01 DD 0004F PUSHL #1 8F DD 00051 PUSHL #8290362 03 FB 00057 CALLS #3, LIB\$SIGNAL 8F 3C 0005A 2\$: MOVZWL #2328, RO 04 0005F RET	1114 1110 1116 1119 1120

; Routine Size: 96 bytes, Routine Base: \$CODE\$ + 0A79

-

```
MAIL$SEND_MSG VAX/VMS PERSONAL MAIL UTILITY V04-000
```

```
1121
1122
1123
1126
1126
1127
1129
1133
1133
1137
                          GLOBAL ROUTINE MAIL$SEND_ADDR (CNCTDESC) =
 989
 990
                           ! FUNCTIONAL DESCRIPTION:
 991
                                    Send the message to all addressees in the addressee list
 993
                            Inputs:
 995
 996
                                    cnctdesc = address of cnct block for message to send.
 998
                          BEGIN
 999
1000
                          MAP
                               CNCTDESC : REF $BBLOCK;
1001
1002
1003
1004
                               CNCTRAB = CNCTDESC[CNCT_T_RAB] : $BBLOCK,
                 1138
1005
                               CNCTFAB = .CNCTRAB[RAB$[_FAB] : $BBLOCK;
1006
                 1140
                          BUILTIN
1007
                 1141
1142
1143
                               REMQUE:
1008
1009
1010
                          LOCAL
                 1144
1011
                               ADRDESC : VOLATILE REF $BBLOCK,
                               USERDESC : VECTOR[2,LONG],
XABFHC : $XABFHC_DECL,
1012
                 1146
1013
                               TDESC : $BBLOCK[DSC$C_S_BLN],
1014
                 1148
1015
                               DFILE,
                               FIRST_TIME.
1016
1017
                 1150
                               STATUS:
1018
                 1151
                 1152
1019
1020
                            ADRDESC will be rleared by ENABLE
                 1154
1021
1022
                          ENABLE SEND_ERROR (ADRDESC);
                 1156
1157
1023
1024
                 1158
1025
                             If not network job, or network and file received ok, then get file size.
1026
1027
                 1159
                            Ensure it's a disk oriented device. If not, assume the null device
                 1160
1028
                 1161
                           DFILE = .CNCTFAB[$FAB_DEV(MNT)] AND .CNCTFAB[$FAB_DEV(FOD)]
                 1162
                          AND . TNCTFAB[$FAB_DEV(RND)];
CNCTRAB[RAB$L_CTX] = MAIL$_READERR;
1029
1030
1031
                 1164
                           CNCTDESC[CNCT]L_MSGBLKS] = 0;
1032
                 1165
                 1166
1167
                          IF (NOT .MAIL$GL_FLAGS[MAIF_V_NETJOB]
    OR .CNCTDESC[CNCT_L_FILERR])
1033
1034
                 1168
1169
                          AND DFILE
1035
1036
                               $REWIND(RAB=CNCTRAB,ERR=UTIL$REPORT_10_ERROR);
1037
                 1170
1038
                 1171
                               $XABFHC_INIT(XAB=XABFHC);
                               CNCTFABTFAB$L_XAB] = XABFHC;
$DISPLAY(FAB=CNCTFAB,ERR=UTIL$REPORT_IO_ERROR);
                 1172
1039
1040
                               CNCTFAB[FAB$L_XAB] = 0;
CNCTDESC[CNCT_L_MSGBLKS] = .XABFHC[XAB$L_EBK];
IF .XABFHC[XAB$Q_FFB] EQL_0
1041
                 1174
1042
                 1175
                 1176
1177
                                    THEN CNCTDEST[CNCT_L_MSGBLKS] = .CNCTDESC[CNCT_L_MSGBLKS] - 1;
1044
```

AND .STXTUS

VC

```
MA
```

```
16-Sep-1984 01:17:01
14-Sep-1984 12:42:31
MAILSSEND_MSG
                      VAX/VMS PERSONAL MAIL UTILITY
                                                                                                                        VAX-11 Bliss-32 V4.0-742 Page 40 DISK$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1 (13)
V04-000
: 1102
: 1103
                      1235
12357
1238
1238
1241
1245
1245
1246
                                                                  THEN SIGNAL(1);
                                                            END:
: 1104
                                                      END:
: 1105
                                                 END:
: 1106
                                            END:
: 1107
: 1108
                                         Deallocate the addressee list entry
  1109
; 1110
                                      LIBSFREE_VM(%REF(.ADRDESC[ADR_B_NAMLNG]+ADR_C_LENGTH),ADRDESC);
  1111
                                      END:
                                RETURN TRUE
; 1112
; 1113
                                                                                                     .EXTRN SYSSDISPLAY
                                                                                                                MAIL$SEND_ADDR, Save R2,R3,R4,R5,R6,R7,R8,-
R9,R10,R1T
-68(SP), SP
(NCTDESC, R6
                                                                           OFFC 00000
                                                                                                     .ENTRY
                                                     5E
56
58
57
                                                                 BC
04
                                                                             9E 00002
                                                                                                     MOVAB
                                                                        AE
                                                                         AÇ
                                                                             00
                                                                                  00006
                                                                                                     MOVL
                                                                                                                                                                               1137
                                                               0286
                                                                        60
                                                                              9E 0000A
                                                                                                     MOVAB
                                                                                                                646(R6), R8
                                                                 3C
40
                                                                                                                60(R8), R7
ADRDESC
                                                                        A8
                                                                             DO 0000F
                                                                                                     MOVL
                                                                                                                                                                               1138
                                                                        AE
CF
03
                                                                             D4 00013
                                                                                                     CLRL
                                                                             DE 00016
EF 0001B
EF 00021
D2 00027
CA 0002A
EF 00033
                                                               01E6
                                                                                                     MOVAL
                                                                                                                16$, (FP)
                                                                                                               M3, M1, 66(R7), R0
M6, M1, 65(R7), R1
R1, R1
               50
51
                                                                                                     EXTZV
                                                                                                                                                                               1161
                                  A7
                                                                        Õ1
                                                                                                     EXTZV
                                                     51
50
01
                                                                                                     MCOML
                                                                                                     BICL2
                                                                                                                R1, R0
               5B
                           43
                                  A7
                                                                                                     EXTZV
                                                                                                                #4, #1, 67(R7), DFILE
                                                                                                                                                                               1162
                                                     ŠB
                                                                                                     MCOML
                                                                                                                DFILE, DFILE
                                                                             CB 00036
DO 0003A
                                                                                                                DFILE, RO, DFILE #8261810, 24(R8)
                                  5B
                                                                                                     BICL3
                                                     A8 007E10B2
                                              18
                                                                                                     MOVL
                                                                                                                                                                               1163
                                                                             D4 00042
E1 00045
E9 00040
E9 00051 1$:
                                                                        A6
                                                                                                     CLRL
                                                                                                                60(R6)
                                                                                                                                                                               1164
                                                                        01
                                  04 00000000G
                                                                                                     BBC
BLBC
                                                                                                                MI, MAILSGL_FLAGS, 18
                                                                                                                                                                               1166
                                                                                                               72(R6), 2$
DFILE, 2$
UTIL$REPORT_IO_ERROR
                                                                        A6
5B
00
58
02
00
                                                                                                                                                                               1167
                                                     40
                                                                                                     BLBC
                                                                                                                                                                               1168
                                                         0000000G
                                                                                                     PUSHAB
                                                                                                                                                                               1170
                                                                             DD 0005A
                                                                                                                R8 #2, SYS$REWIND
                                                                                                     PUSHL
                                                                             FB 0005C
2C 00063
                                                                                                     CALLS
               2C
                                                     6E
                                                                                                     MOVC5
                                                                                                                #0, (SP), #0, #44, $RMS_PTR
                                                                                                                                                                              1171
                                                                        AE
8F
                                                                                  80000
                                                     AE
A7
                                                                             BO 0006A
                                                               2C1D
                                                                                                                #11293, $RMS PTR
XABFHC, 36(R7)
                                                                                                     MOVU
                                                                        AE
00
57
                                                                             9E 00070
9F 00075
                                                                 00
                                                                                                                                                                              1172
                                                                                                     MOVAB
                                                         0000000G
                                                                                                               UTILSREPORT_10_ERROR
                                                                                                     PUSHAB
                                                                             DD 0007B
                                                                                                     PUSHL
                                                                                                               #2. SYS$DISPLAY 36(R7)
                                                                        Ó2
A7
                                      0000000G 00
                                                                             FB 0007D
                                                                                                     CALLS
                                                                 24
10
                                                                             D4 00084
                                                                                                                                                                              1174
                                                                                                     CLRL
                                                                             DO 00087
                                                                                                                                                                              1175
                                              3C
                                                     A6
                                                                        AE
                                                                                                                XABFHC+16, 60(R6)
                                                                                                     MOVL
                                                                             B5 0008C
12 0008F
D7 00091
                                                                        AE
03
                                                                                                                XABFHC+20
                                                                                                     TSTW
                                                                                                                                                                              1176
                                                                                                     BNEQ
                                                                 3C
                                                                                                                60(R6)
                                                                                                     DECL
                                                                                                                                                                              1177
                                                                             CO 00094 28:
                                                                                                     ADDL2
                                                                                                                                                                              1184
                                                                                                                MAILSO_SYSNODE2
                                                         0000000G
                                                                        ŎŎ
                                                                             B$ 00097
13 0009D
                                                                                                     TSTW
                                                                        1F
                                                                                                     BEQL
                                                                        01
56
                                  17 00000000 00
                                                                             E0 0009F
                                                                                                                #1, MAILSGL_FLAGS, 38
                                                                                                     BBS
```

DD 000A7

PUSHL

W

		00000000G	00	000000000	03	PF 0	00A9 00AF 00B5		PUSHAB PUSHAB CALLS	MAILSQ_SYSNODE2 DYN_DESC_2 #3, STR\$CONCAT	
		00000000G	့ ဝ	00000000.	56 00 02	D 0	00BC 00BE 00C0	3\$:	BRB PUSHL PUSHAB CALLS	4\$ R6 DYN_DESC_2 #2, STR\$COPY_DX	1185
		40	00 59 50 AE	04 28	BO 03	00 0 0 0 1 0 0	00CD 00D0 00D4 00D9	4 5 : 5 \$:	MOVL MOVL REMQUE BVC	#2, STRSTOPY DX #1, FIRST_TIME CNCTDESC, RO a40(RO), ADRDESC 6\$	1189
		38	50 EA 50 AE AE	40 10 40 10	AE AO	8 0	00DB 00DE 00E2 00E6 00EA	6 \$:	BRW MOVL BLBS MOVL MOVZBL	15\$ ADRDESC, RO 28(RO), 5\$ ADRDESC, RO 29(RO), USERDESC	1191
3 C	SA VE	38 40 00000000G	AE 00 50 252 7E	04 48	1E 01 AC AO	1 0 0 0 8 0	00EF 00F5 00FD 0101		ADDL3 BBC MOVL BLBS	#30, ADRDESC, USERDESC+4 #1, MAIL\$GL_FLAGS, 8\$ CNCTDESC, R0 72(R0), 8\$ CNCTDESC, R2	1194 1199 1200
		000000006	7E 00	04 40	A2 57 01	'D 0	01.05 01.09 01.0D 01.0F 01.16		MOVL MOVQ PUSHL CALLS	R7 W1, UTIL\$GETFILENAME	1202
		000000006	00	48	01 A2 05)D ()	0118 011A 011D	7\$:	PUSHL PUSHL PUSHL CALLS BRW	R0 #1 72(R2) #5, LIB\$SIGNAL 14\$	
		00000000G	0¢ 09 00		59 58 58	9 0 B 0	012A 012D 012F	8\$:	BLBS BLBC PUSHL CALLS	FIRST_TIME, 9\$ DFILE, 9\$ R8 #1. SYS\$REWIND	1204 1205 1206
			50	40 08	AE I	0 00 5 00 3 00	0136 0138 0130 0136	9\$:	CLRL MOVL TSTL BEQL	FIRST TIME ADRDESC, RO 8(RO) 10\$	1207 1208
		000000006	00 5 A	04 44	AE 02 50	B 0	0141 0144 0147 014E		PUSHL PUSHL CALLS MOVL	CNCTDESC ADRDESC #2, MAIL\$NET_SEND RO, STATUS	1210
	C8	0000000G	00 00	00000000°	01 I 78 00	1 00 F 00	0151 0154 0150 0150 0158	10\$:	BLBC BBC BRB PUSHAB PUSHAB	STATUS, 7\$ #1, MAIL\$GL_FLAGS, 7\$ 13\$ DYN_DESC USERDESC	1211 1212 1213 1216
	13	00000000G 00000000G	00 6E 00 56	04	02 50 01	B 0	0167 016E 0171 0179		CALLS BLBC BBS MOVL	<pre>#2, MAIL\$GET_DEVDIR R0, 14\$ #1, MAIL\$GL FLAGS, 11\$</pre>	1218 1220
04 08	AE A6	00000000	A6 00	000000006	08 08 AE	8 0 8 0 F 0	017D 0183 018C 018F	115:	MOVC3 MOVC3 PUSHAB MOVL	CNCTDESC, RÖ #8, 8(R6), TDESC #8, DYN_DESC_2, 8(R6) USERDESC MAILST WAF RUFF RO	1221 1223 1224
			56	000000000	A0 (D 01	0196 0199 019f		PUSHAB PUSHAB MOVL	MAÎLST_UAF_BUFF, RO 36(RO) DYN_DESC CNCTDESC, R6	1223

08	FD88 06 00000000G A6 04	CF 5A 00 AE 21	56 04 50 01 08 5A 08 A6 30 AE	DD 001A3 FB 001A5 DO 001AA E0 001AD 28 001B5 E9 001BB	12\$:	PUSHL CALLS MOVL BBS MOVC3 BLBC PUSHAB	R6 #4, MAIL\$SEND_MSG R0, STATUS #1, MAIL\$GL_FLAGS, 12\$ #8, TDESC, 8(R6) STATUS, 14\$ 8(R6)	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
	00000000G 0C 00000000G	00 00 09	02 01 5 A	9F 001C1 FB 001C4 E1 001CB E9 001D3		PUSHAB CALLS BBC BLBC PUSHL	USERDESC #2, MAIL\$NOTIFY #1, MAIL\$GL_FLAGS, 14\$ STATUS, 14\$	1233 1234 1235
	000000006	00	01 01 40 AE	DD 001D6 FB 001D8 9F 001DF	13 \$: 14 \$:	PUSHL CALLS PUSHAB	#1 #1, LIB\$SIGNAL ADRDESC	1235
	04 04	50 AE AE	44 AE 1D AO 1E	DO 001E2 9A 001E6 CO 001EB	 	MOVL MOVZBL ADDL2	ADRDESC, RO 29(RO), 4(SP) #30, 4(SP) 4(SP)	
	000000006	00	04 ÅE 02 FED4	9F 001EF FB 001F2 31 001F9		PUSHAB CALLS BRW	#2. LIB\$FREE VM	1101
		50	01		15\$:	MOVL RET	5\$ #1, R0	; 1191 ; 1245 ; 1246 ; 1138
		50 50	08 AC 04 A0 FC A0 01 5E	0000 00200 00 00202 00 00206 9F 0020A DD 0020D	16\$:	.WORD MOVL MOVL PUSHAB PUSHL	Save nothing 8(AP), RO 4(RO), RO ADRDESC #1	1138
	FD86	7E CF	04 AC 03	DD 0020F 7D 00211 FB 00215 04 0021A		PUSHL MOVQ CALLS RET	SP 4(AP), -(SP) #3, SEND_ERROR	

; Routine Size: 539 bytes, Routine Base: \$CODE\$ + OAD9

MAILSSEND_MSG VAX/VMS PERSONAL MAIL UTILITY V04-000

16-Sep-1984 01:17:01 14-Sep-1984 12:42:31

VAX-11 Bliss-32 V4.0-742 Page 43 DISK\$VMSMASTER:[MAIL.SRC]SENDMSG.B32;1 (14)

: 1115 : 1116 1247 1 END 1248 0 ELUDOM

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name Bytes **Attributes**

SOUNS \$CODE\$ 16 NOVEC, WRT, RD , NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) 3316 NOVEC, NOWRT, RD , EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	Total	- Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	183	0	1600	00:01.4
_\$255\$DUA28:[MAIL.OBJ]MAILDEF.L32;1	457	52	11	26	00:00.4

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: SENDMSG/OBJ=OBJ\$: SENDMSG MSRC\$: SENDMSG/UPDATE=(ENH\$: SENDMSG)

3276 code + 56 data bytes 00:45.9 02:54.6 1630 Size:

Run Time: ; Elapsed Time:

Lines/CPU Min: Lexemes/CPU-Min: 38945 : Memory Used: 486 pages : Compilation Complete 0231 AH-BT13A-SE

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